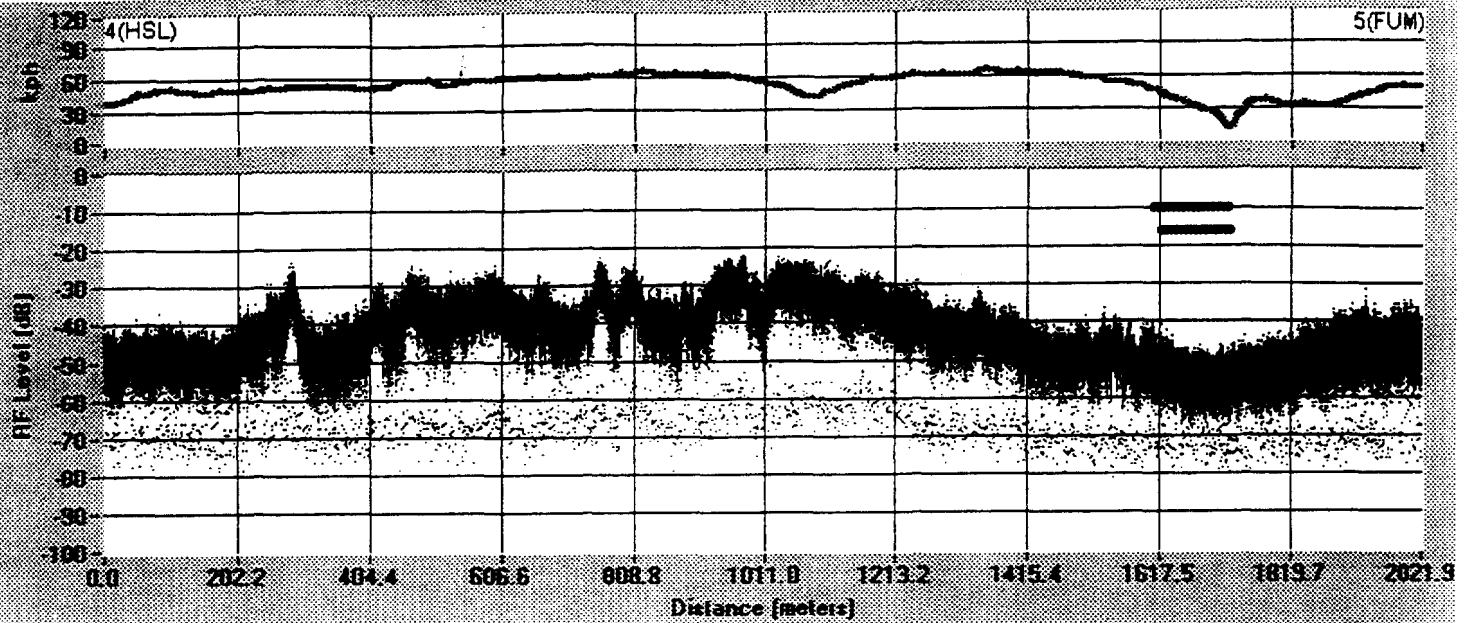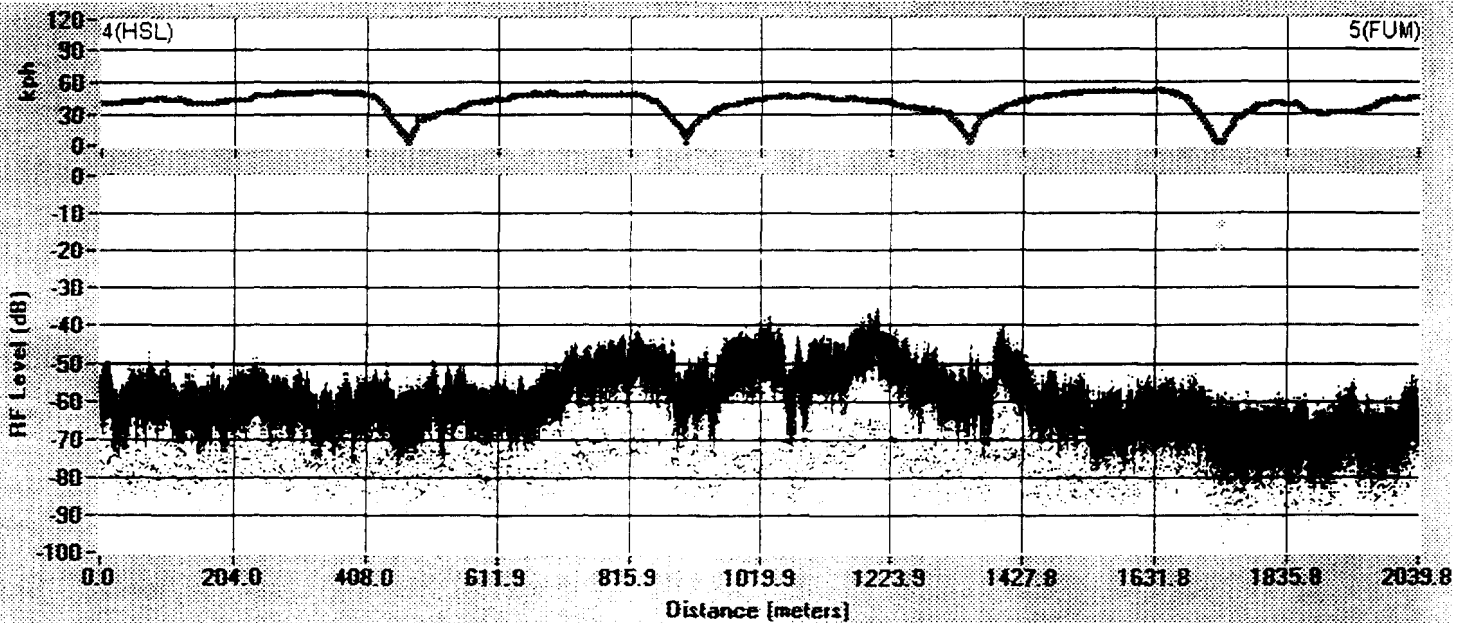## EUREKA-147 -- Perimeter Route -- Landmarks 4-5
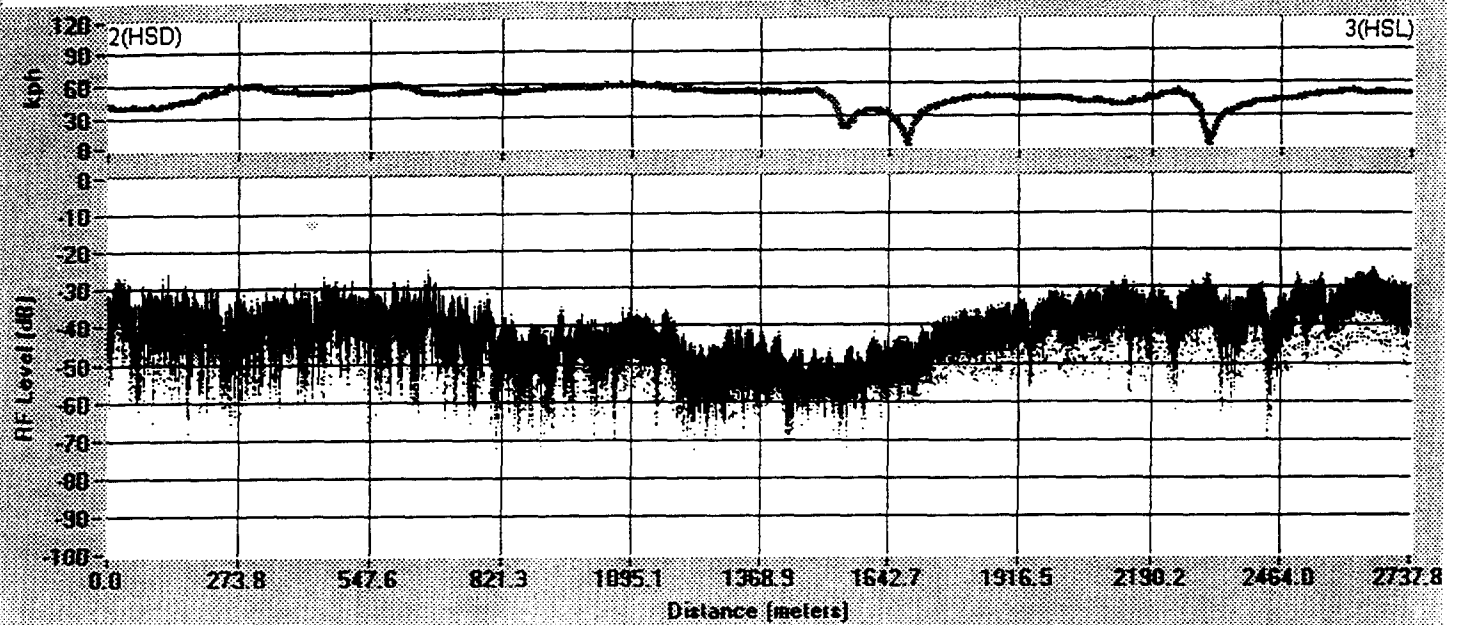

Event Summary: Total 3266; Clear 2905 (88.9%); Impaired 0 (0.0%); Muted 361 (11.1%).

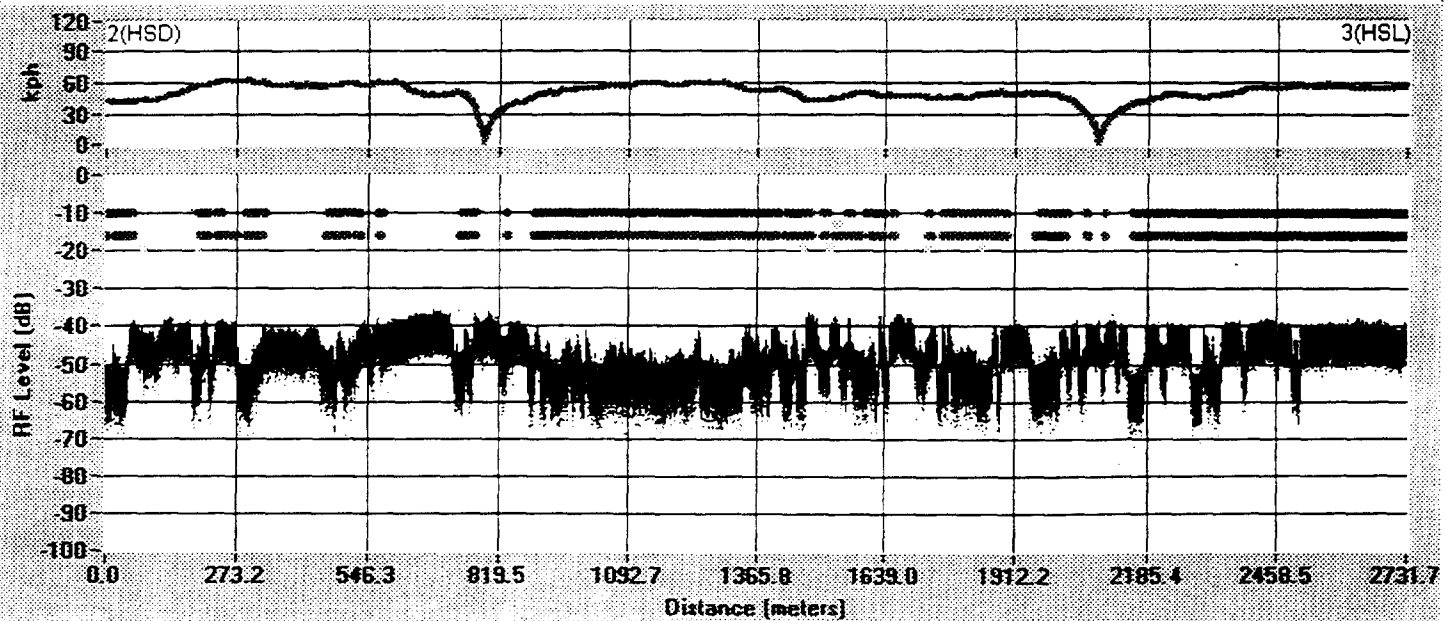## EUREKA-147 (single) -- Perimeter Route -- Landmarks 4-5

Event Summary: Total 5555; Clear 5484 (98.7%); Impaired 71 (1.3%); Muted 0 (0.0%).

AT&T Lucent IBAC -- Perimeter Route -- Landmarks 2-3
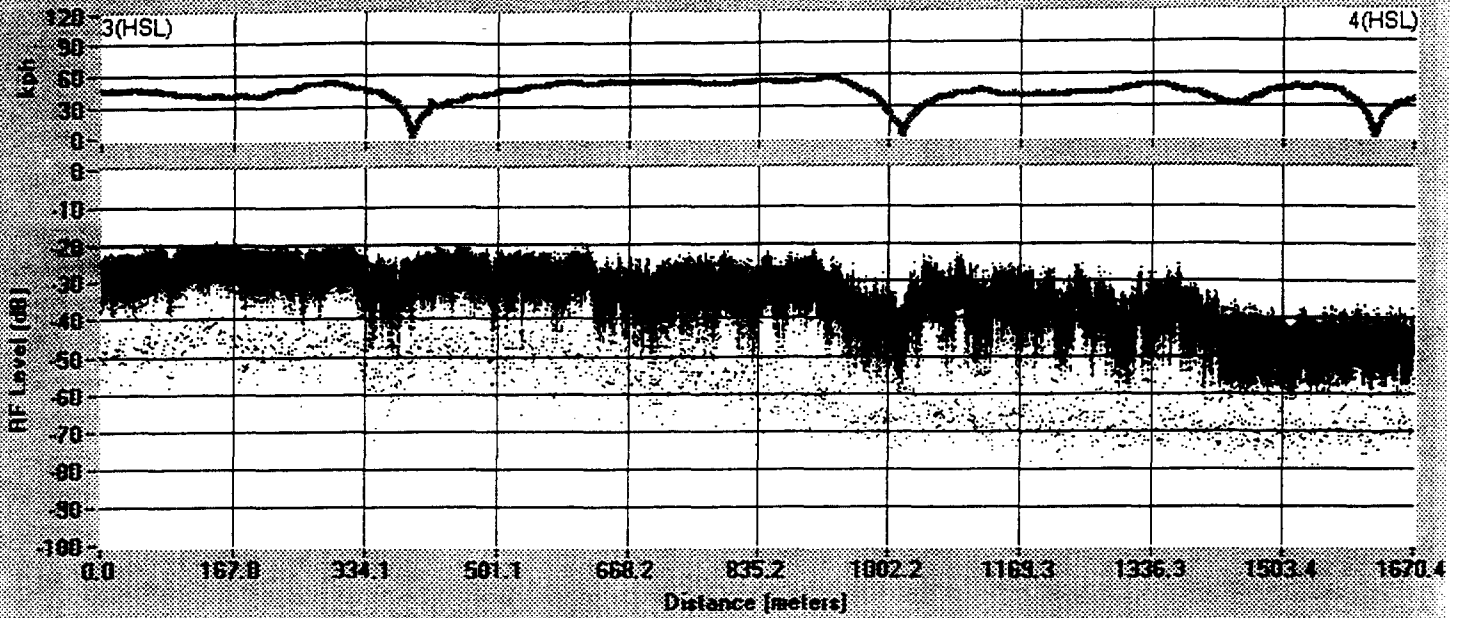

Event Summary: Total 5262; Clear 5256 (99.9%); Impaired 6 (0.1%); Muted 0 (0.0%).

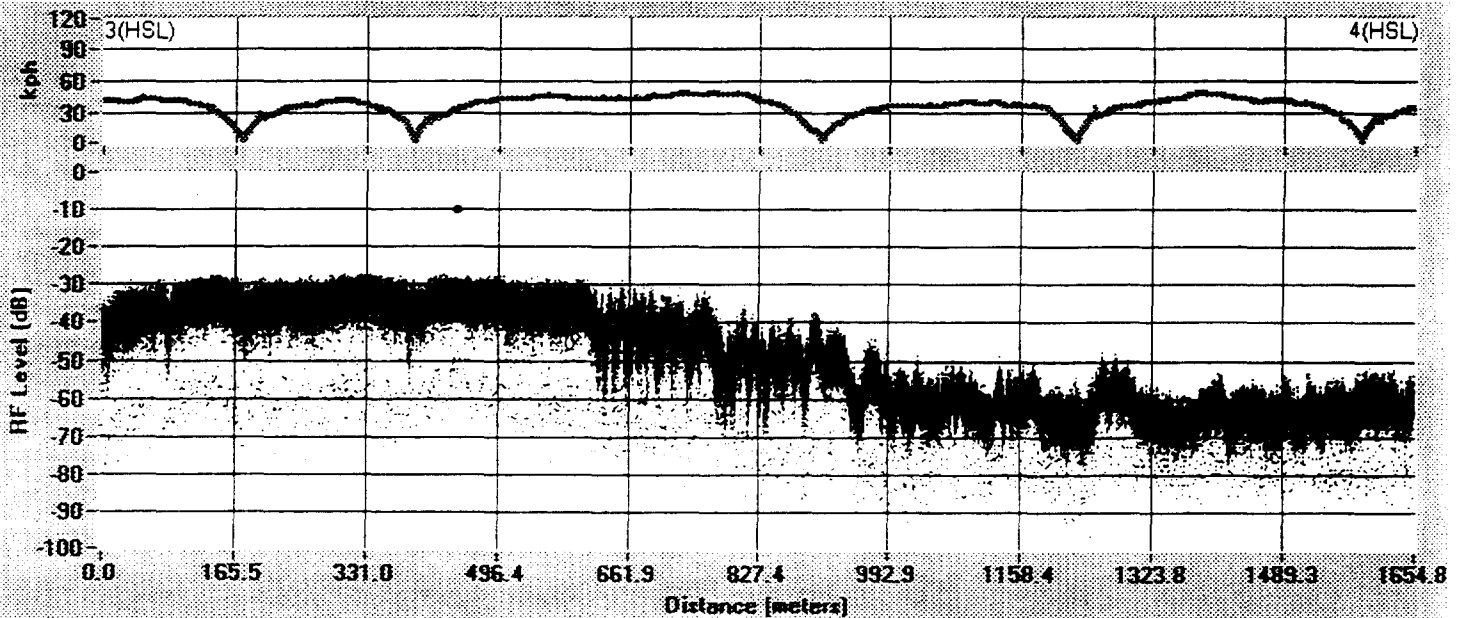## VOA/JPL -- Perimeter Route -- Landmarks 2-3

Event Summary: Total 4703; Clear 2113 (45.1%); Impaired 33 (0.7%); Muted 2557 (54.6%).

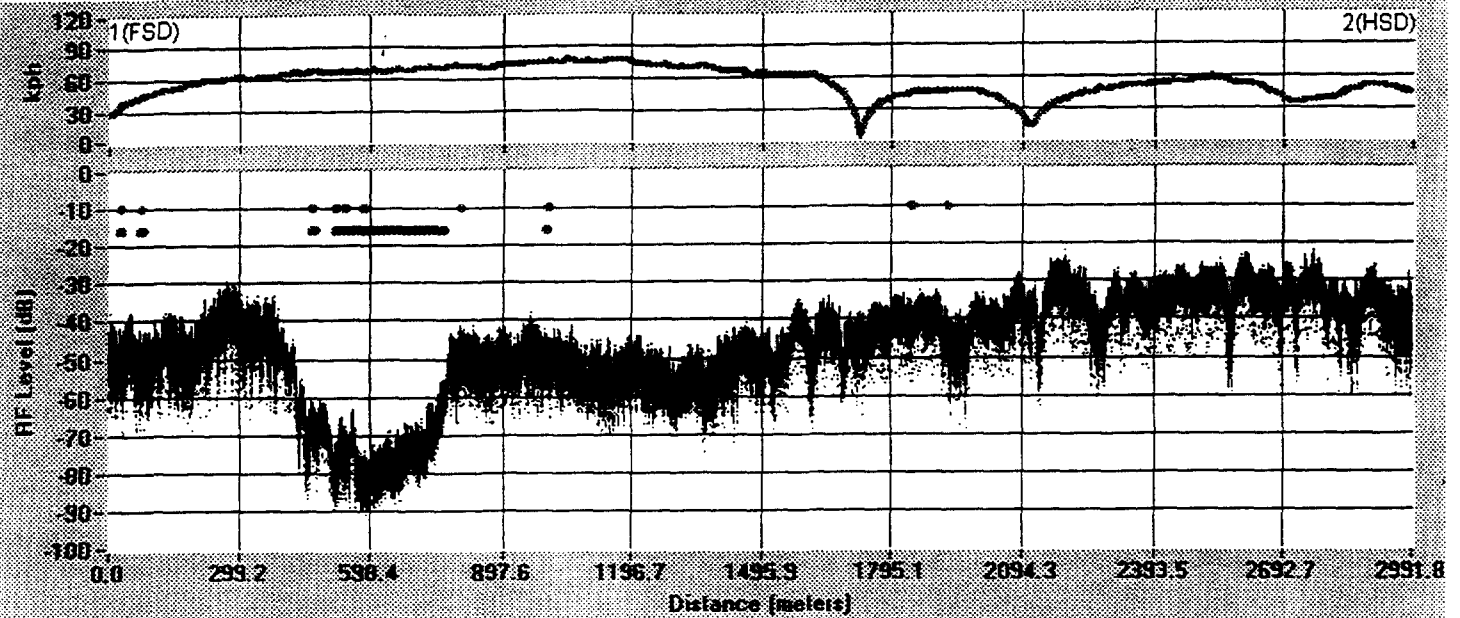## EUREKA-147 -- Perimeter Route -- Landmarks 3-4

Event Summary: Total 3935; Clear 3935 (100.0%); Impaired 0 (0.0%); Muted 0 (0.0%).

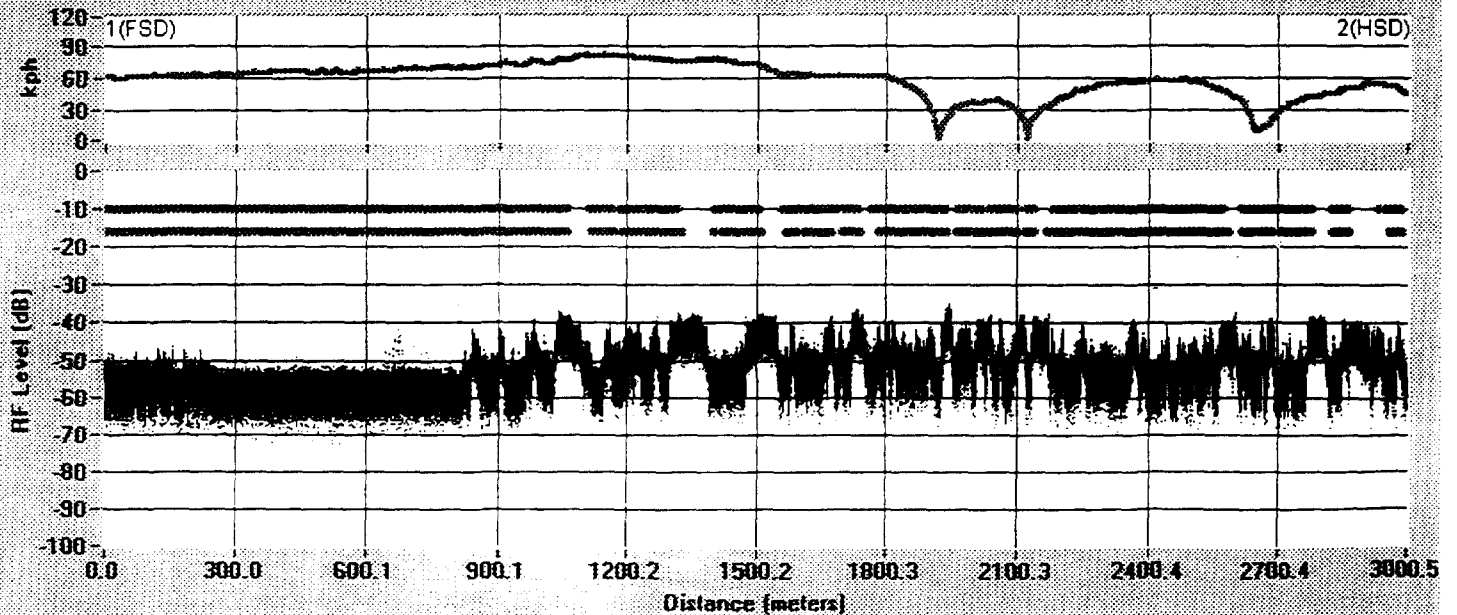## EUREKA-147 (single) -- Perimeter Route -- Landmarks 3-4

Event Summary: Total 5280; Clear 5273 (99.9%); Impaired 0 (0.0%); Muted 7 (0.1%).

AT&T Lucent IBAC -- Perimeter Route -- Landmarks 1-2
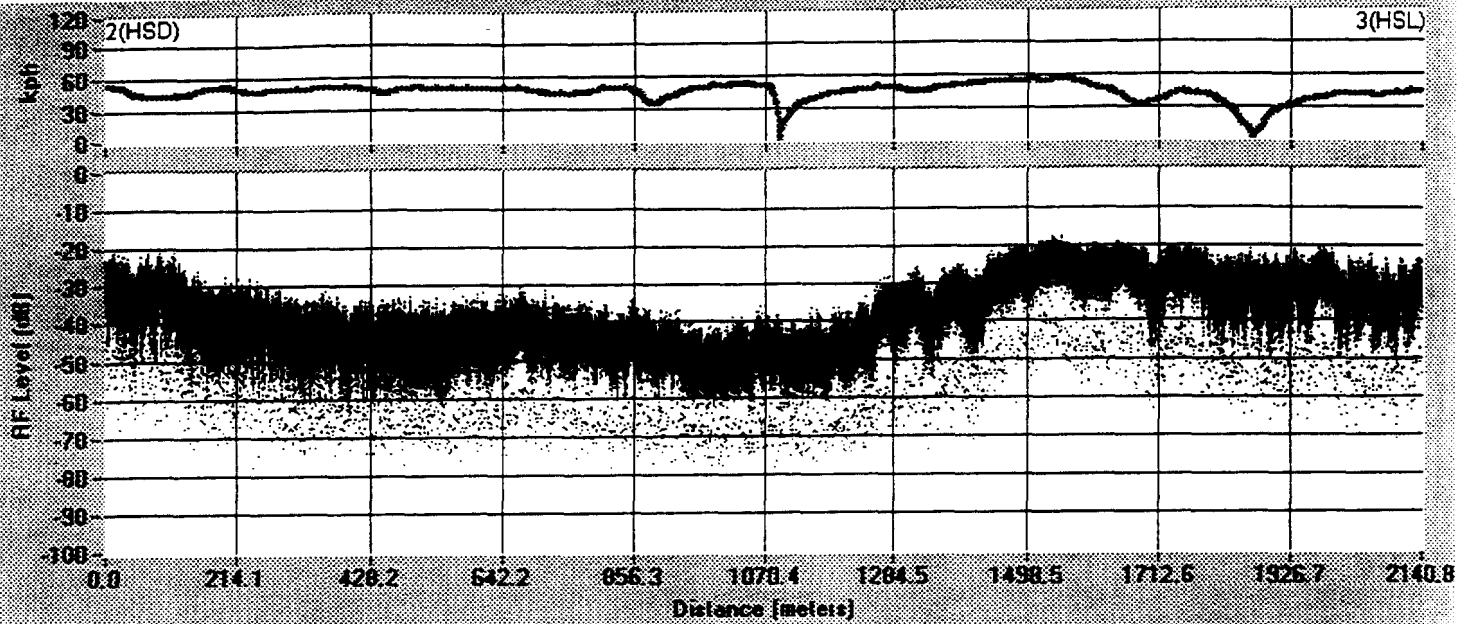
Event Summary: Total 4809; Clear 4488 (93.3%); Impaired 0 (0.0%); Muted 321 (6.7%).

VOA/JPL -- Perimeter Route -- Landmarks 1-2

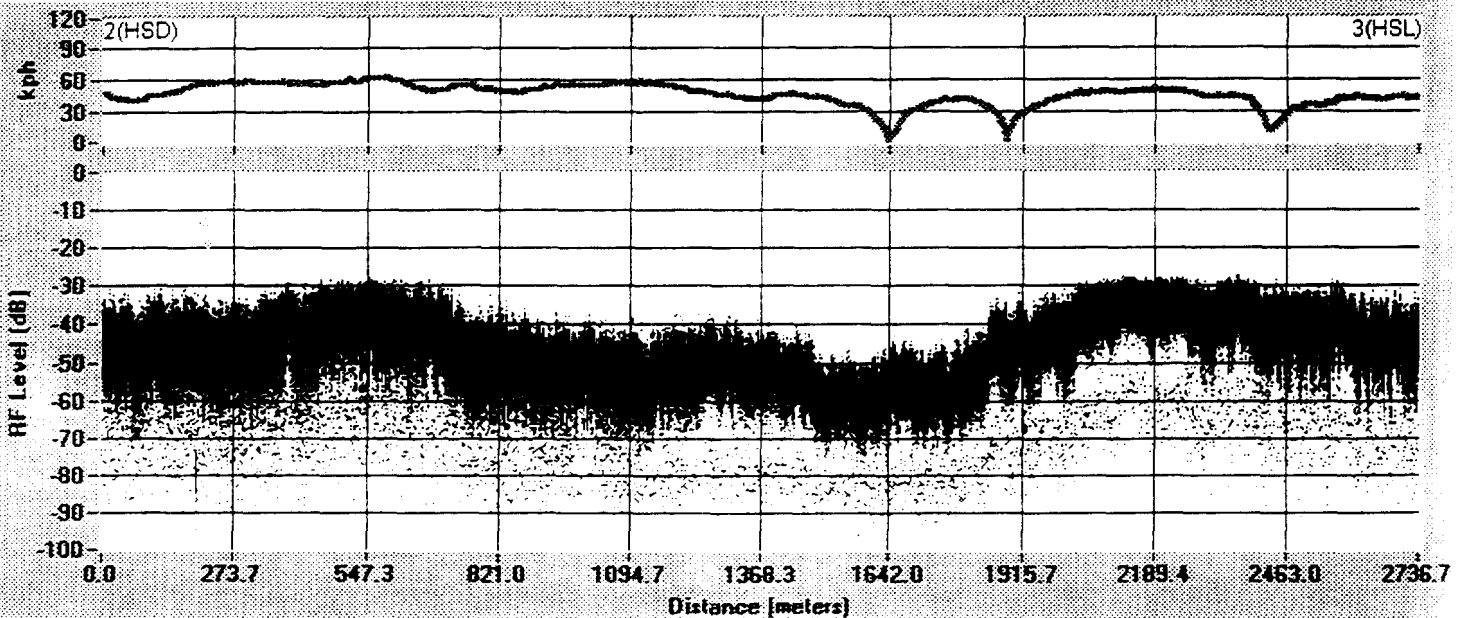Event Summary: Total 4951; Clear 1167 (23.6%); Impaired 5 (0.1%); Muted 3779 (76.3%).

EUREKA-147 -- Perimeter Route -- Landmarks 2-3

Event Summary: Total 4383; Clear 4383 (100.0%); Impaired 0 (0.0%); Muted 0 (0.0%).
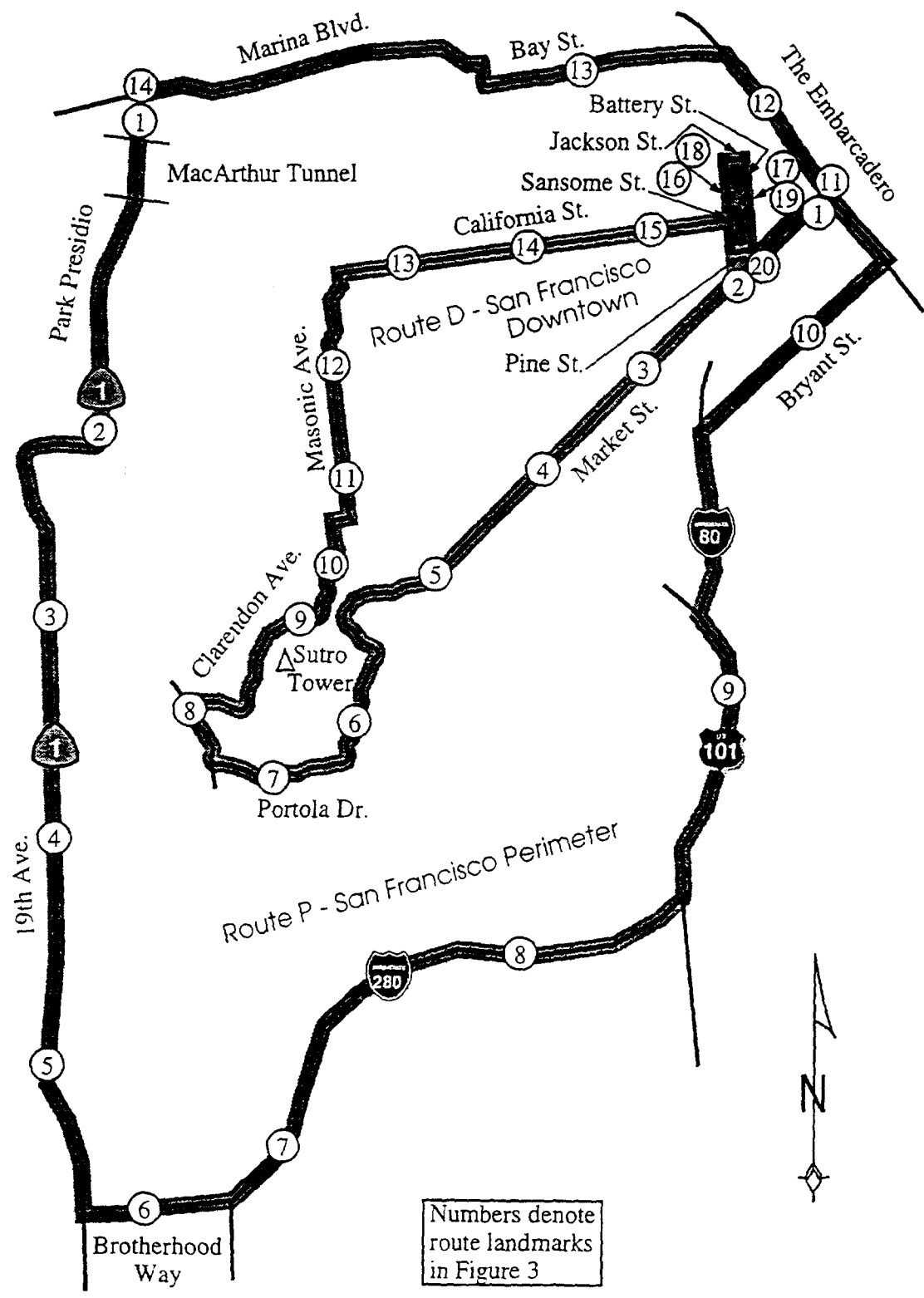
NOTE #1

EUREKA-147 (single) -- Perimeter Route -- Landmarks 2-3

Event Summary: Total 5601; Clear 5593 (99.8%); Impaired 8 (0.1%); Muted 0 (0.0%).

Electronic Industries Association • Consumer Electronics Manufacturers Association

"Long Path" Test Routes
Routes D & P • San Francisco

Numbers denote route landmarks in Figure 3

HAMMETT & EDISON, INC.
CONSULTING ENGINEERS
SAN FRANCISCO

961210
Figure 2B

EUREKA-147 -- Perimeter Route -- Landmarks 1-2

Event Summary: Total 7083; Clear 6984 (98.6%); Impaired 89 (1.3%); Muted 10 (0.1%).

NOTE #1

EUREKA-147 (single) -- Perimeter Route -- Landmarks 1-2
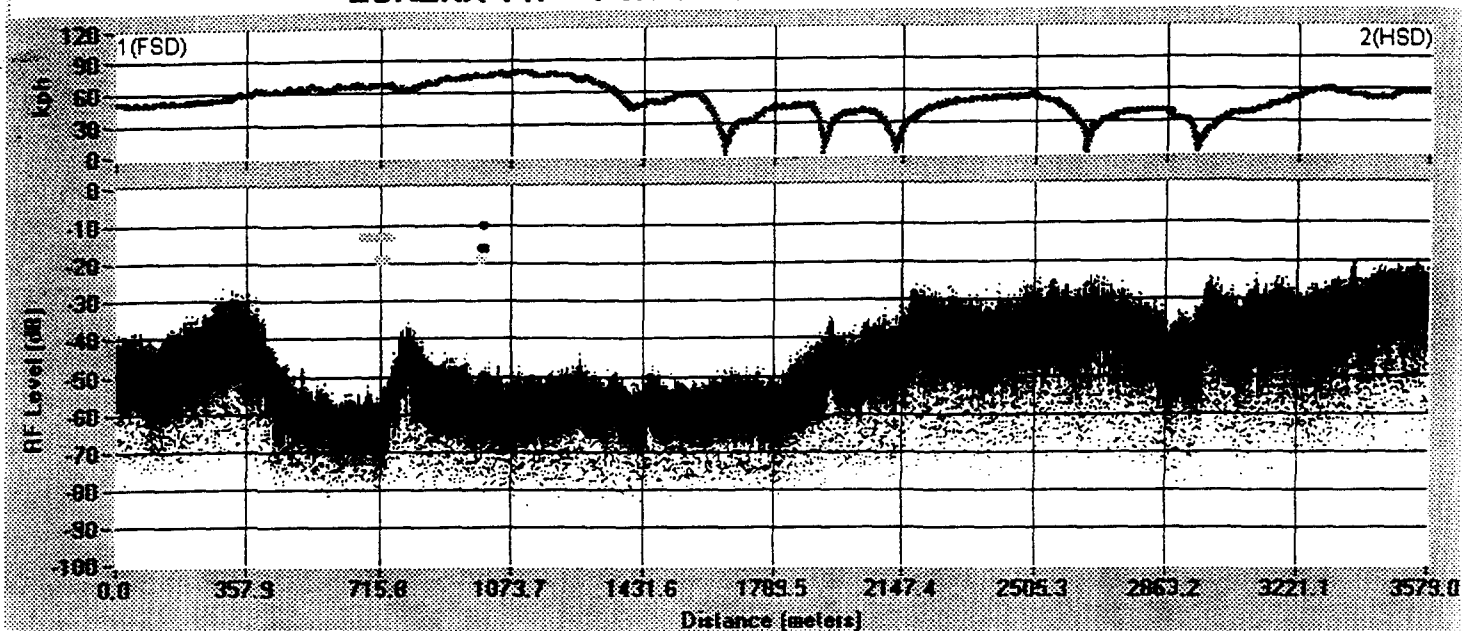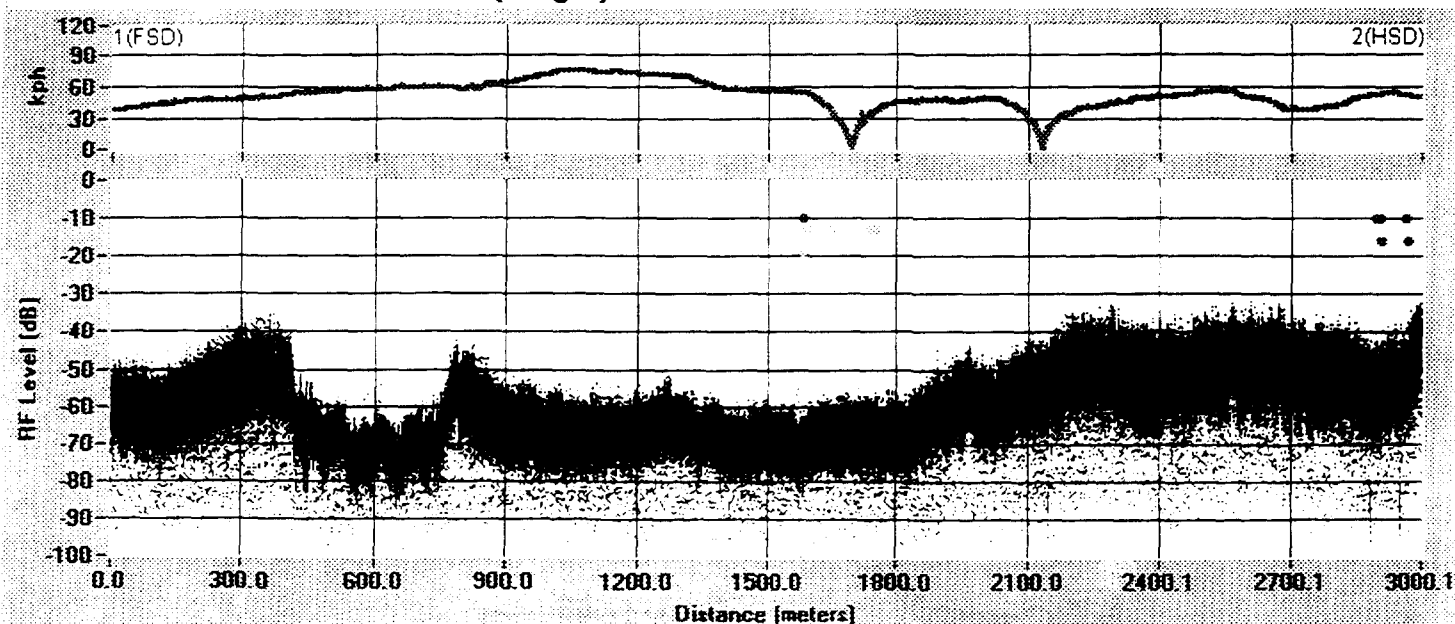

Event Summary: Total 5314; Clear 5230 (97.8%); Impaired 35 (0.7%); Muted 49 (0.9%).

EIA-DAR FIELD TEST ROUTE DATA
PATH "P" - PERIMETER

NO.	ENV.	DESCRIPTION
1	FSD	Call Box on 19th before Tunnel
2	HSD	19th & RlHd Intersection of Fulton at Light
3	HSL	Intersection of 19th & Noriega
4	HSL	Intersection of 19th & Vincente
5	FUM	Holloway & 19th Intersection (take Alemany east)
6	FUM	Arch Stop Light (through Stop)
7	FUL	Stop Light Under Bart Track before 280 on ramp
8	HUL	I-280 Downtown Sign by Alamany Exit Take 101 North
9	FUL	I-80 Bay Bridge Downtown Sign on overpass
10	HUL	2nd St Stop Light through to Embarcadero turn Left
11	FUL	Clock Tower World Trade Center Sign
12	FUM	Stop Light at Battery (take left @ Bay & Pier 31)
13	HUL	Stop Light @ Columbus & Bay
14	END	19th Avenue Exit sign

ENVIRONMENT THREE LETTER CODES
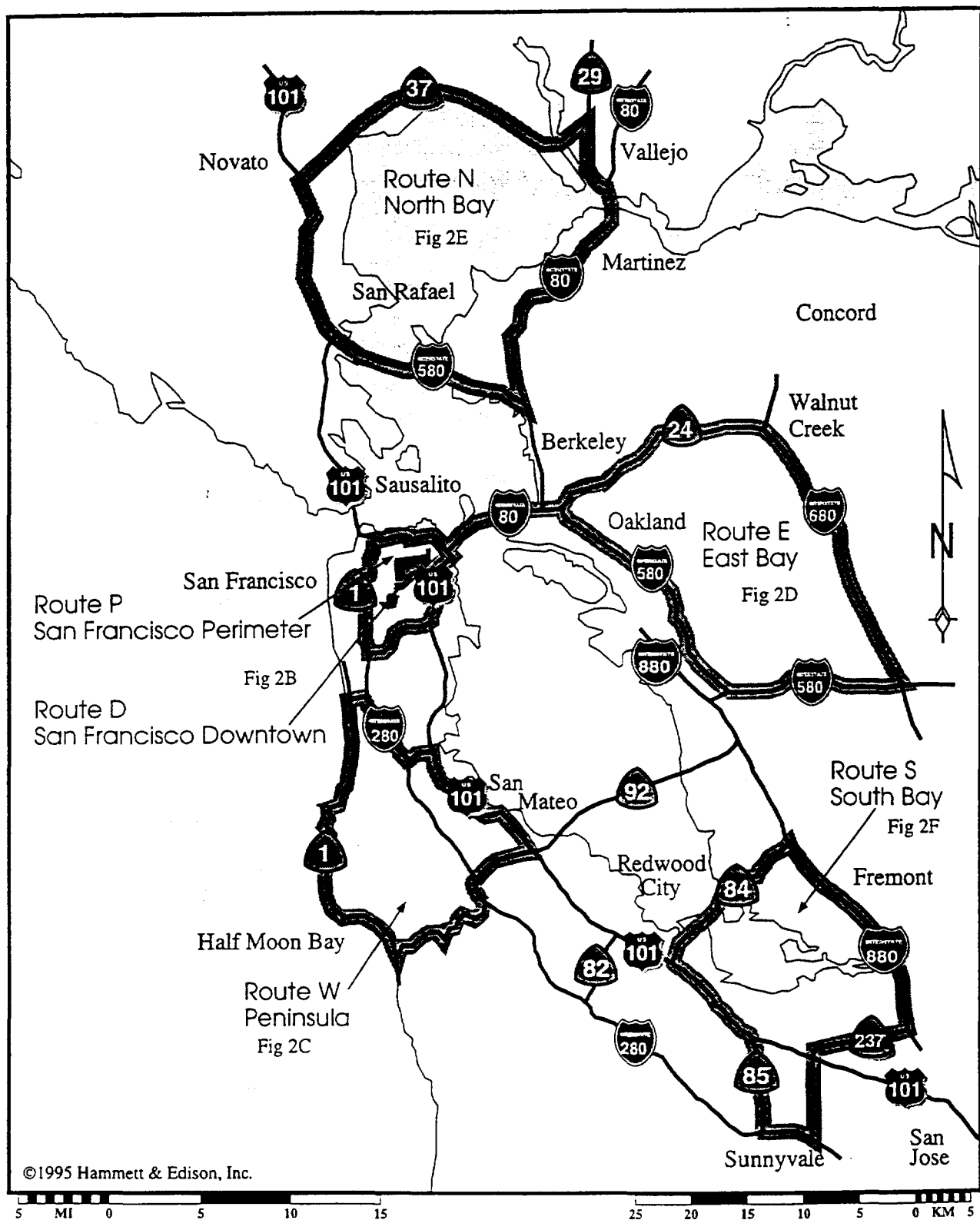
TERRAIN: Flat, Hilly, Mountainous, Valley

AREA: Downtown, Urban, Suburban, Rural, Bridge, Expressway, Tunnel
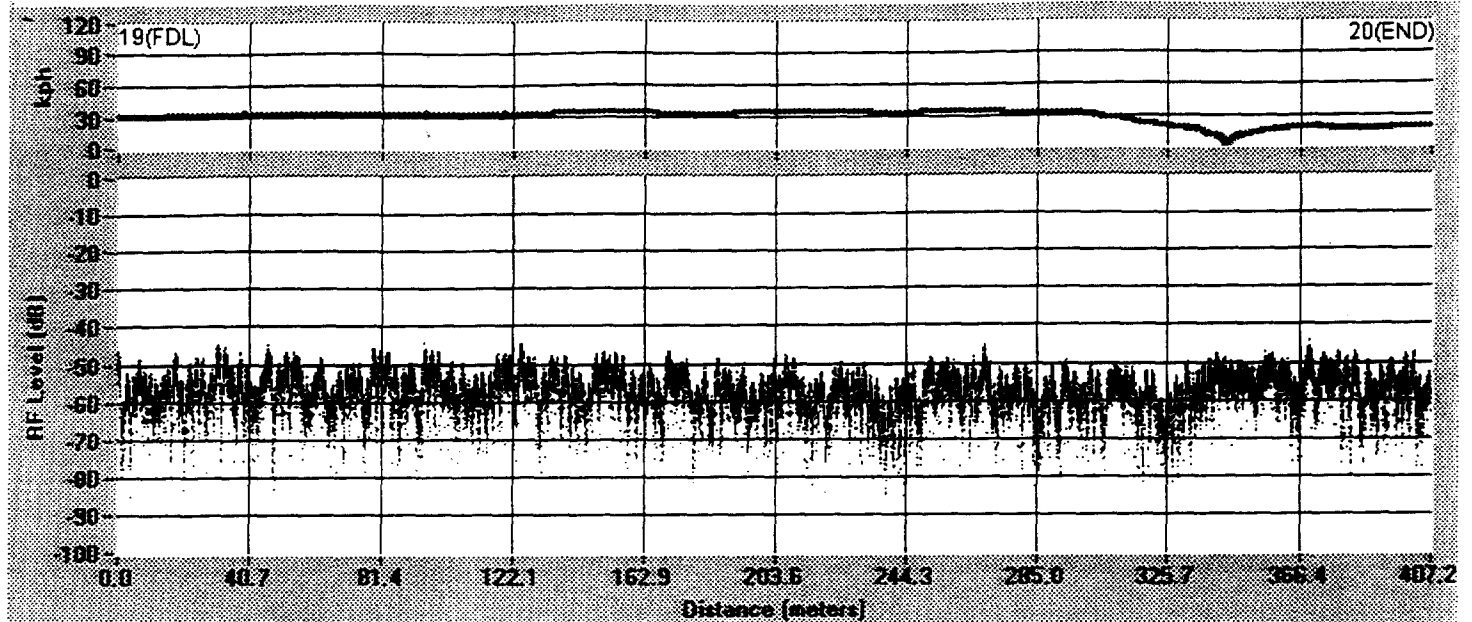
FOLIAGE: None, Light, Moderate, Heavy

PATH OBSERVATION SUMMARIES - Number (%)

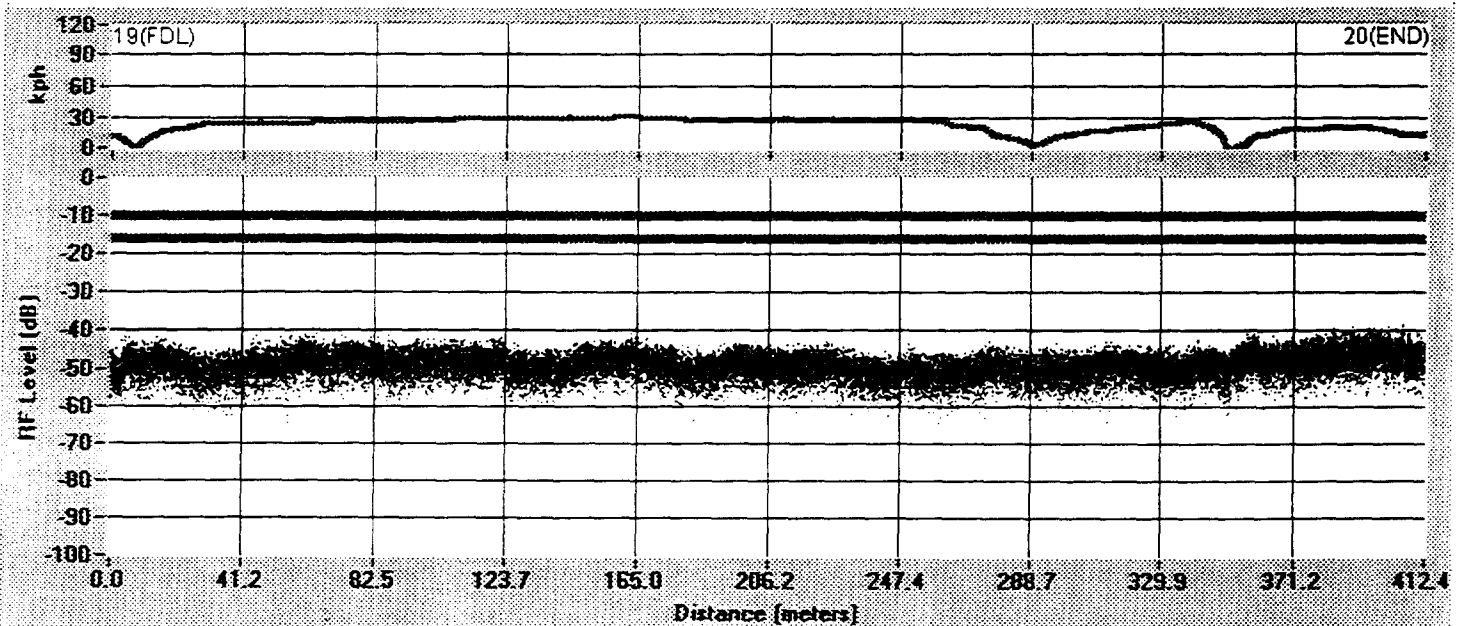| SYSTEM	TOTAL	CLEAR	IMPAIRED	MUTED
EU-147	59,134	58,652(99.2)	89(0.2)	393(0.7)
SEU-147	62,344	59,272(95.1)	1,453(2.3)	1,619(2.6)
AT&T	56,489	50,196(88.9)	112(0.2)	6,181(10.9)
VOA-JPL	61,156	43,687(71.4)	391(0.6)	17,078(27.9)

Figure 2A

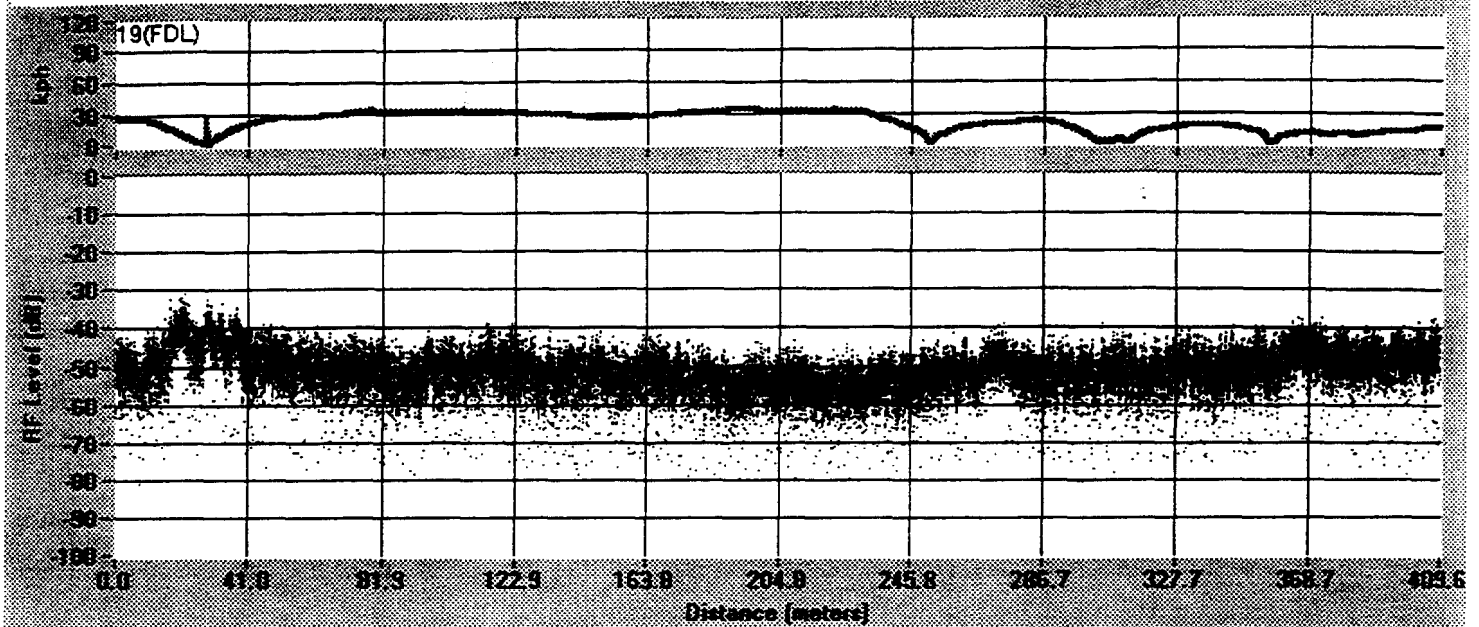## AT&T Lucent IBAC -- Downtown Route -- Landmarks 19-20

Event Summary: Total 1356; Clear 1356 (100.0%); Impaired 0 (0.0%); Muted 0 (0.0%).

VOA/JPL -- Downtown Route -- Landmarks 19-20

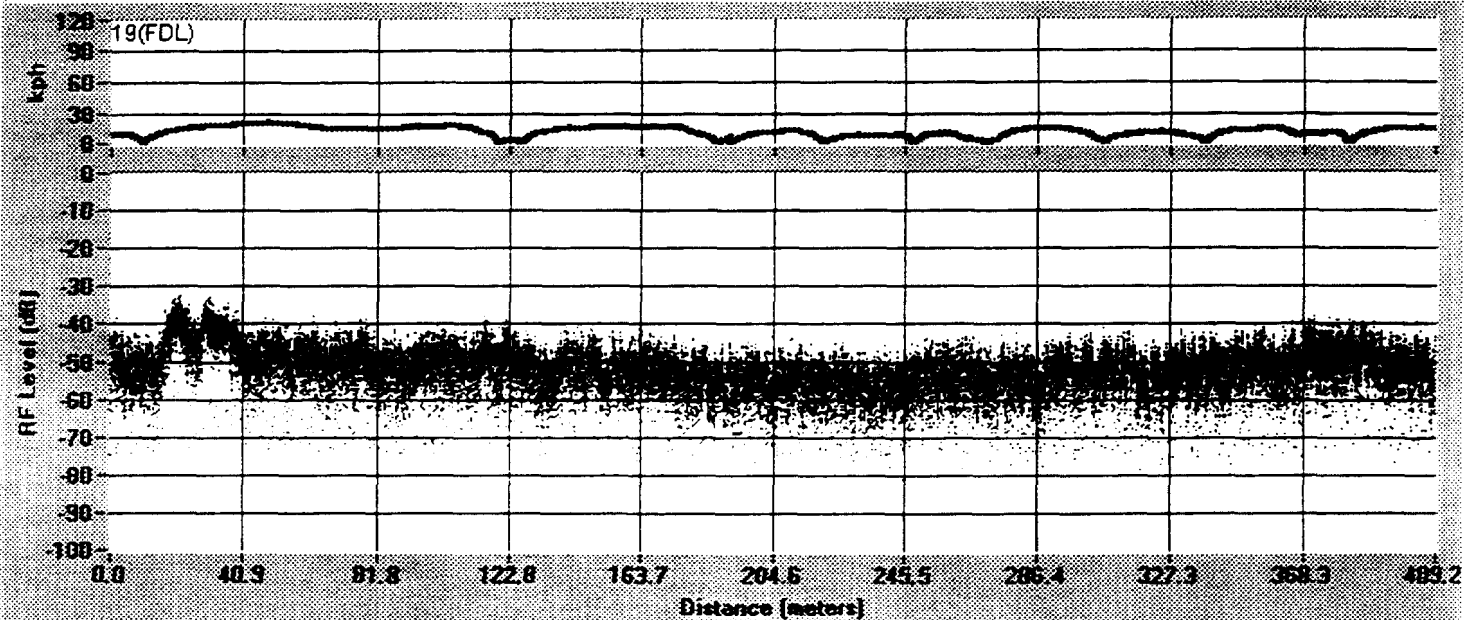Event Summary: Total 2409; Clear 0 (0.0%); Impaired 0 (0.0%); Muted 2409 (100.0%).

EUREKA-147 -- Downtown Route -- Records 1097514-1132508

19(FDL)

Event Summary: Total 2422; Clear 2422 (100.0%); Impaired 0 (0.0%); Muted 0 (0.0%).

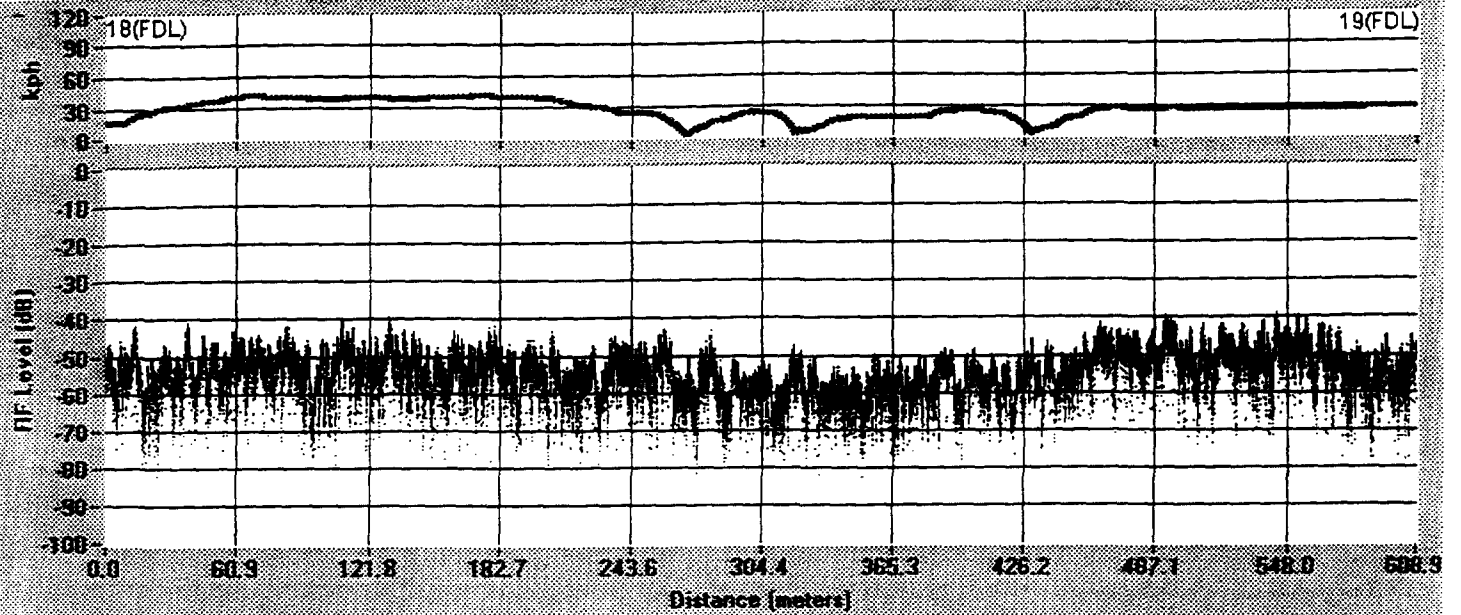"RESTORED GRAPH LANDMARK 19-20"

EUREKA-147 (Single) -- Downtown Route -- Records 1800578-1835572

19(FDL)

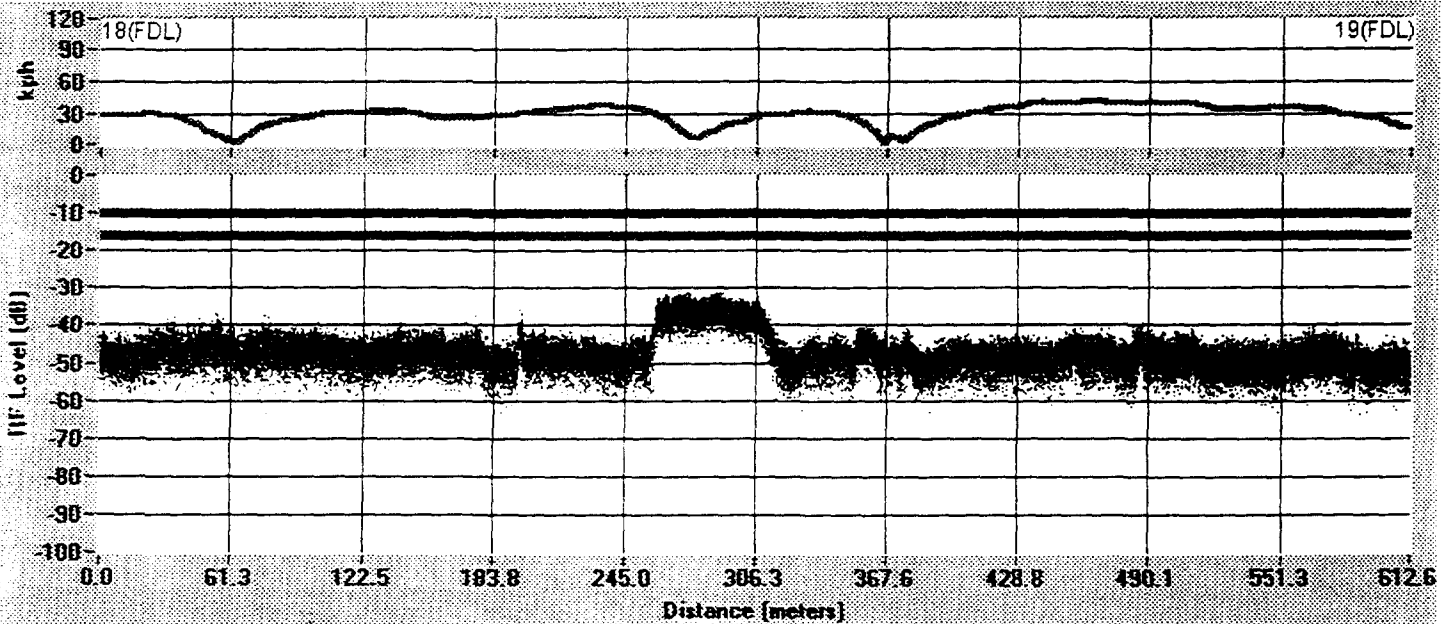Event Summary: Total 4279; Clear 4279 (100.0%); Impaired 0 (0.0%); Muted 0 (0.0%).

"RESTORED GRAPH LANDMARK 19-20"
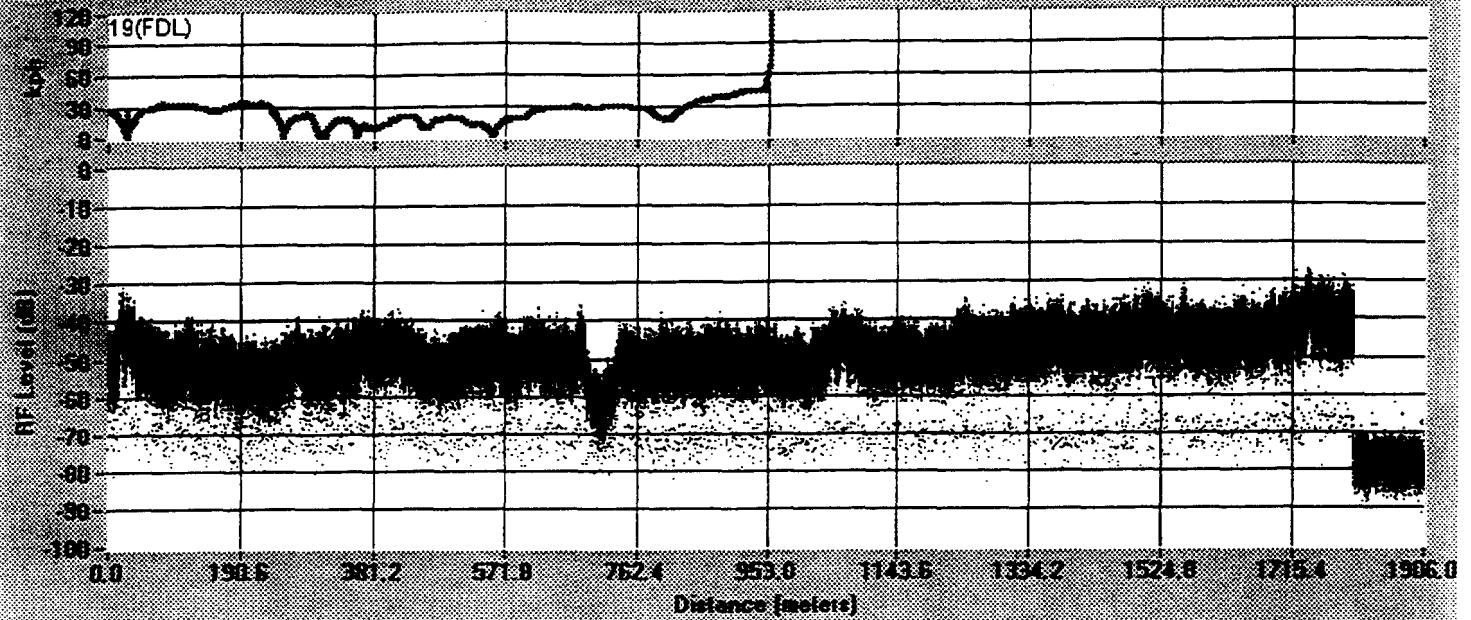
AT&T Lucent IBAC -- Downtown Route -- Landmarks 18-19

18(FDL)

19(FDL)

Distance [meters]

Event Summary: Total 2621; Clear 2621 (100.0%); Impaired 0 (0.0%); Muted 0 (0.0%).

VOA/JPL -- Downtown Route -- Landmarks 18-19

18(FDL)

19(FDL)

Distance [meters]

Event Summary: Total 2317; Clear 0 (0.0%); Impaired 0 (0.0%); Muted 2317 (100.0%).
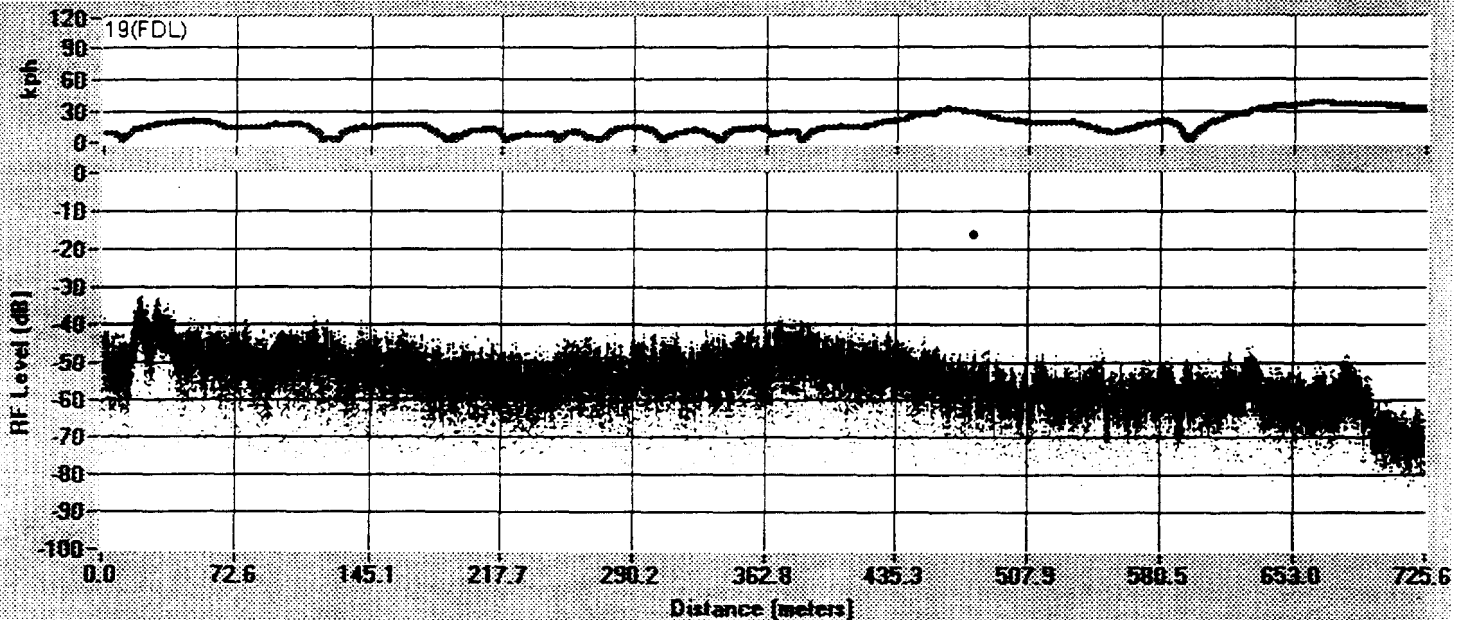
EUREKA-147 -- Downtown Route -- Landmarks 19-20

19(FDL)

Event Summary: Total 10583; Clear 10583 (100.0%); Impaired 0 (0.0%); Muted 0 (0.0%).
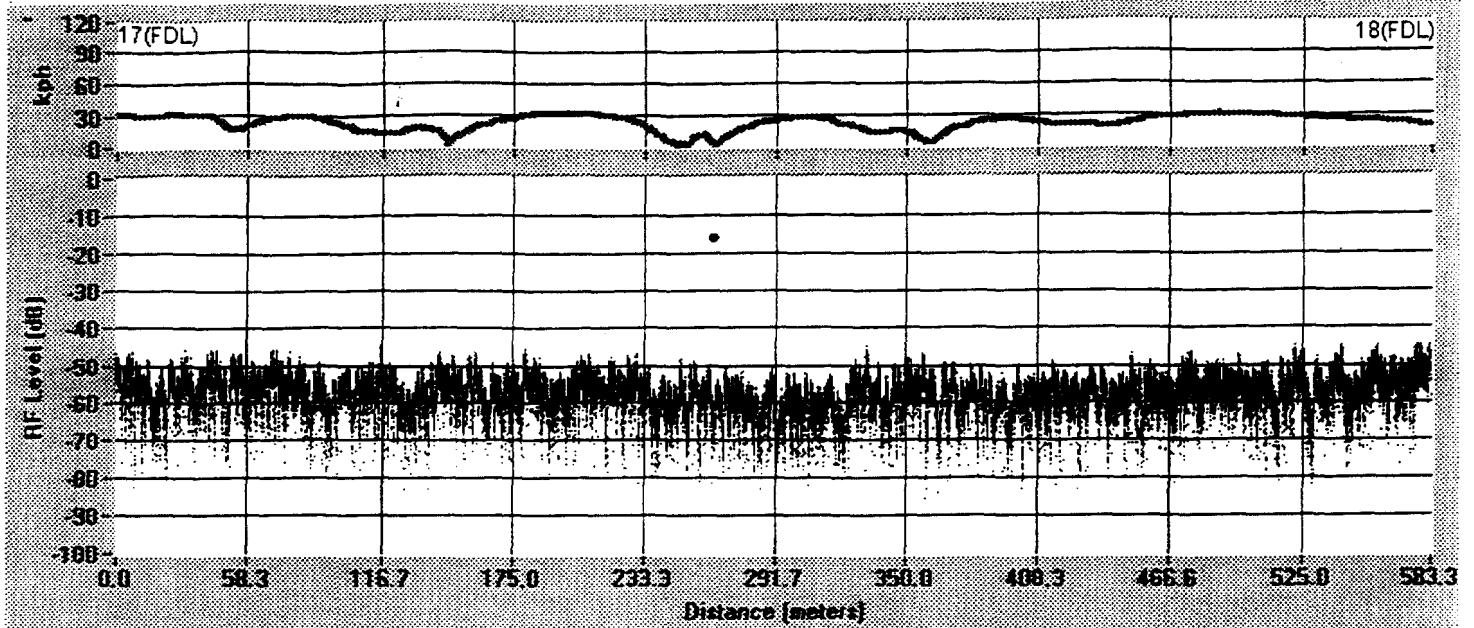
NOTE #2 & #6

EUREKA-147 (Single) -- Downtown Route -- Landmarks 19-20

19(FDL)

Event Summary: Total 5564; Clear 5563 (100.0%); Impaired 0 (0.0%); Muted 1 (0.0%).
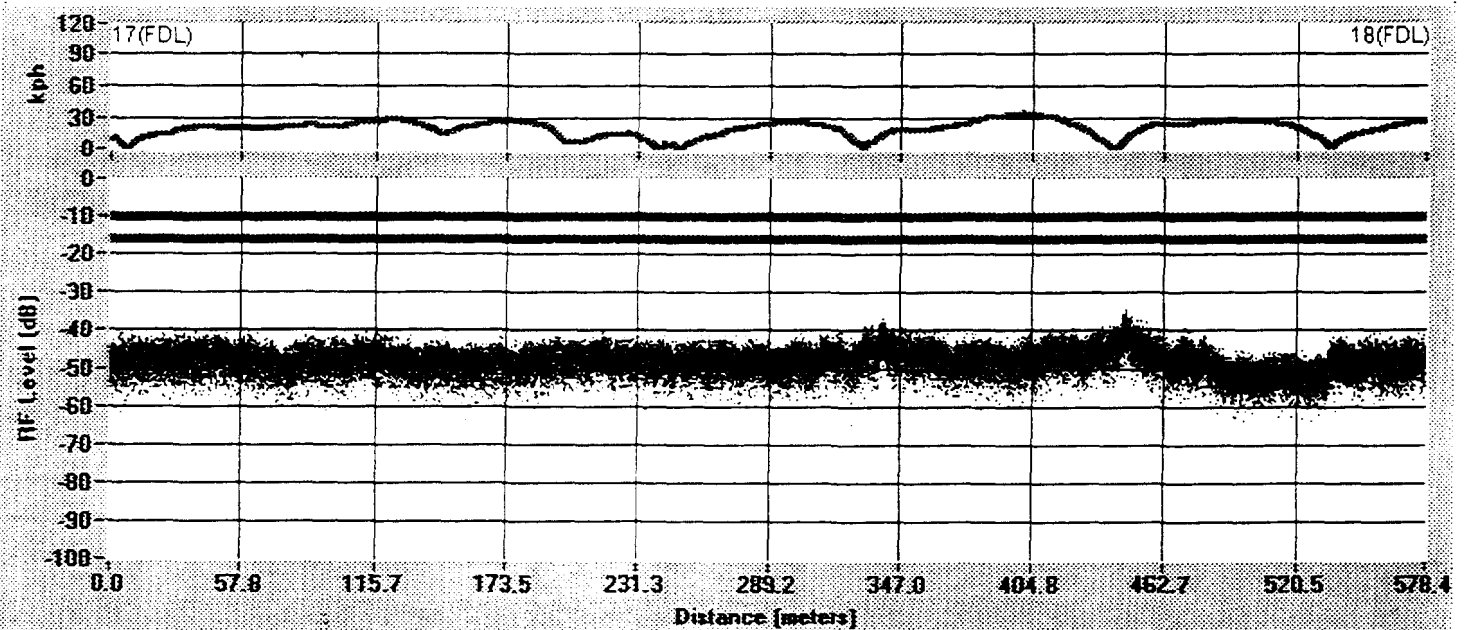
NOTE #2 & #6

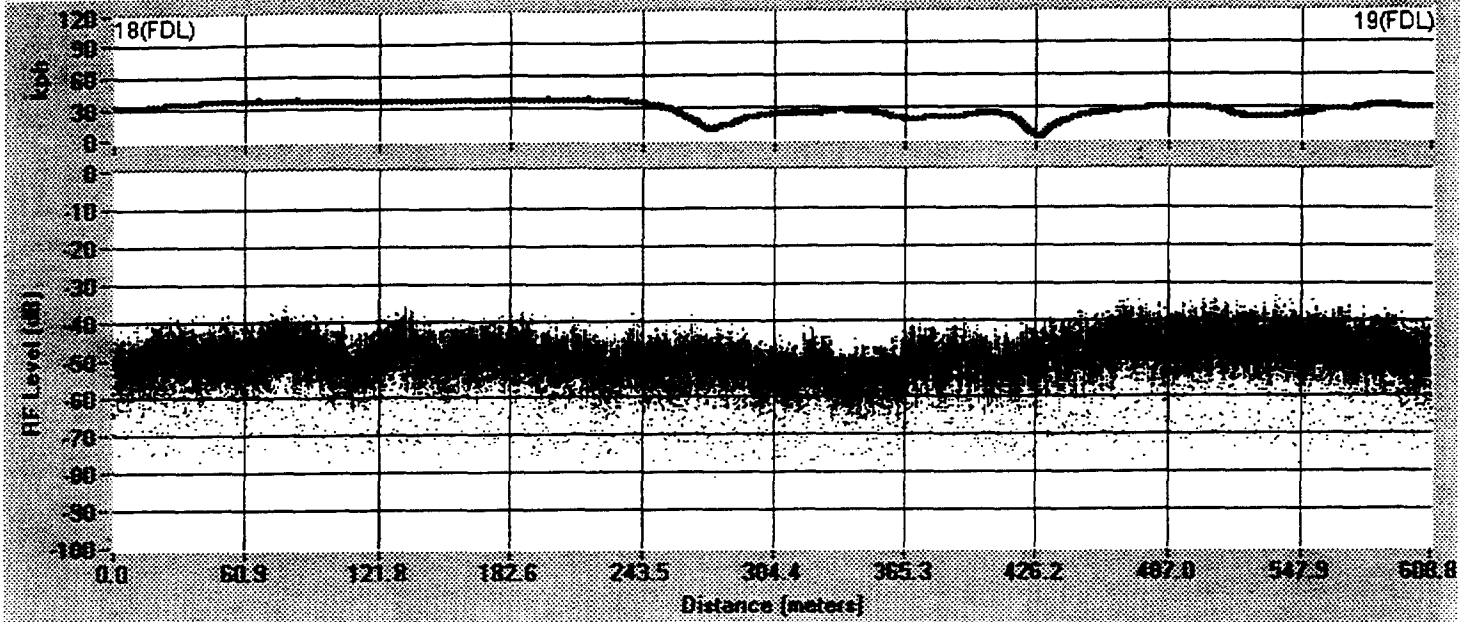## AT&T Lucent IBAC -- Downtown Route -- Landmarks 17-18

Event Summary: Total 3057; Clear 3050 (99.8%); Impaired 0 (0.0%); Muted 7 (0.2%).
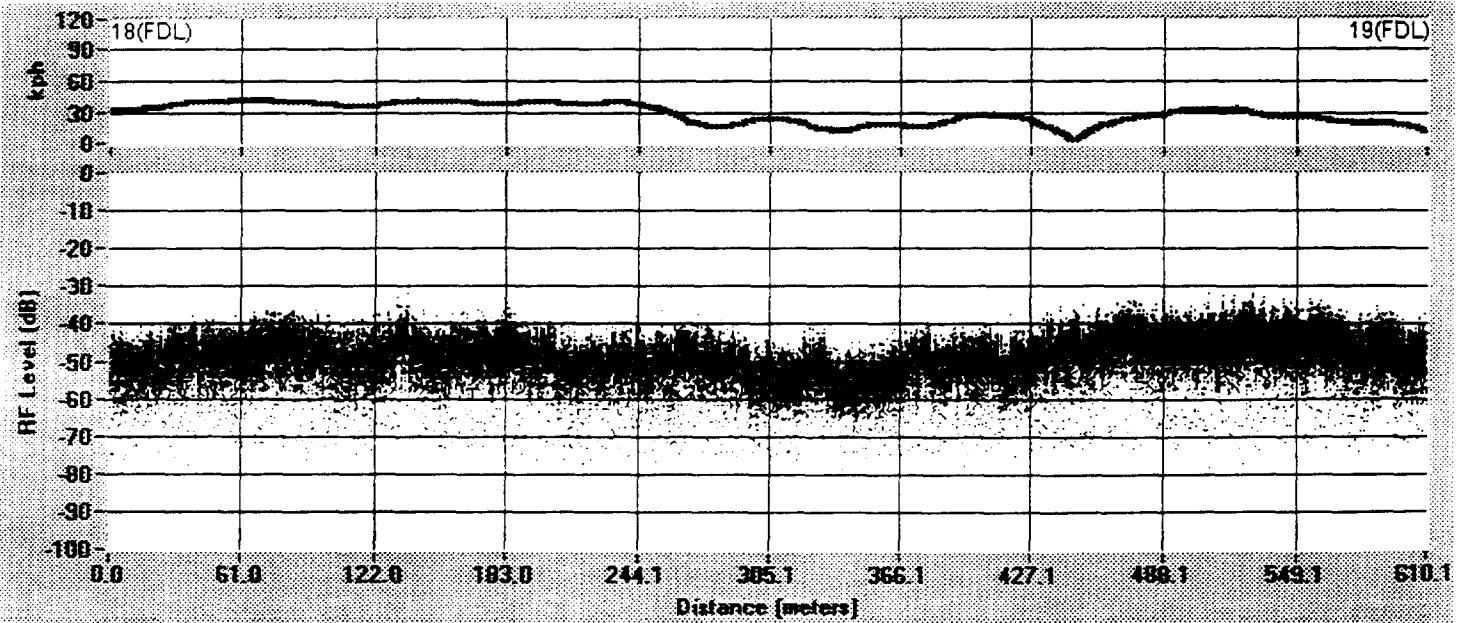
VOA/JPL -- Downtown Route -- Landmarks 17-18

Event Summary: Total 3858; Clear 0 (0.0%); Impaired 0 (0.0%); Muted 3858 (100.0%).

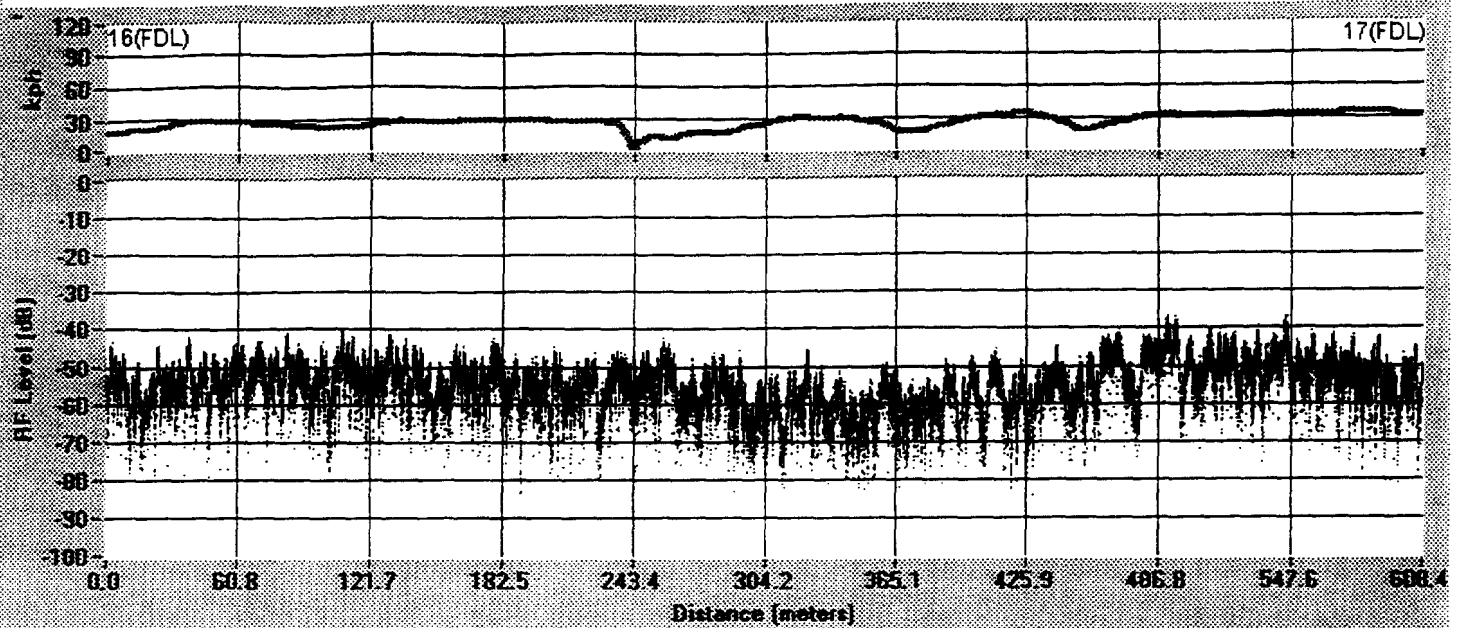**EUREKA-147 -- Downtown Route -- Landmarks 18-19**

Event Summary: Total 2118; Clear 2118 (100.0%); Impaired 0 (0.0%); Muted 0 (0.0%).

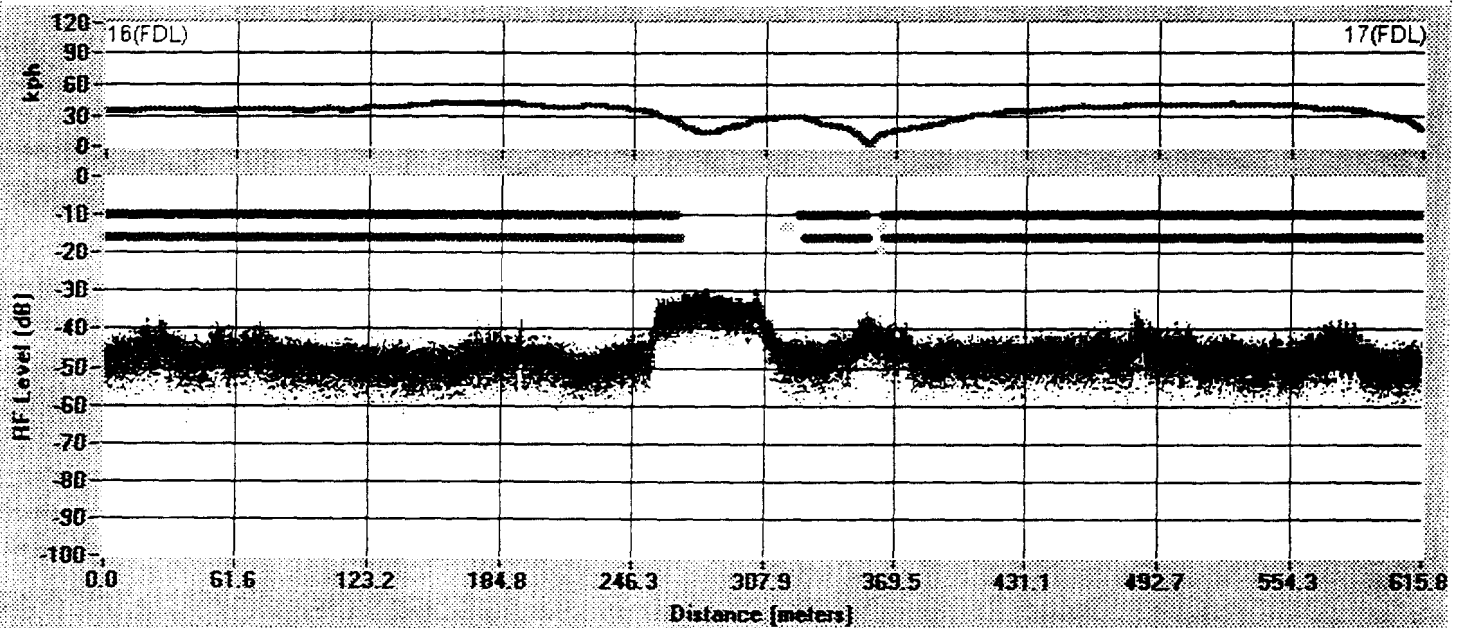**EUREKA-147 (Single) -- Downtown Route -- Landmarks 18-19**

Event Summary: Total 2063; Clear 2063 (100.0%); Impaired 0 (0.0%); Muted 0 (0.0%).

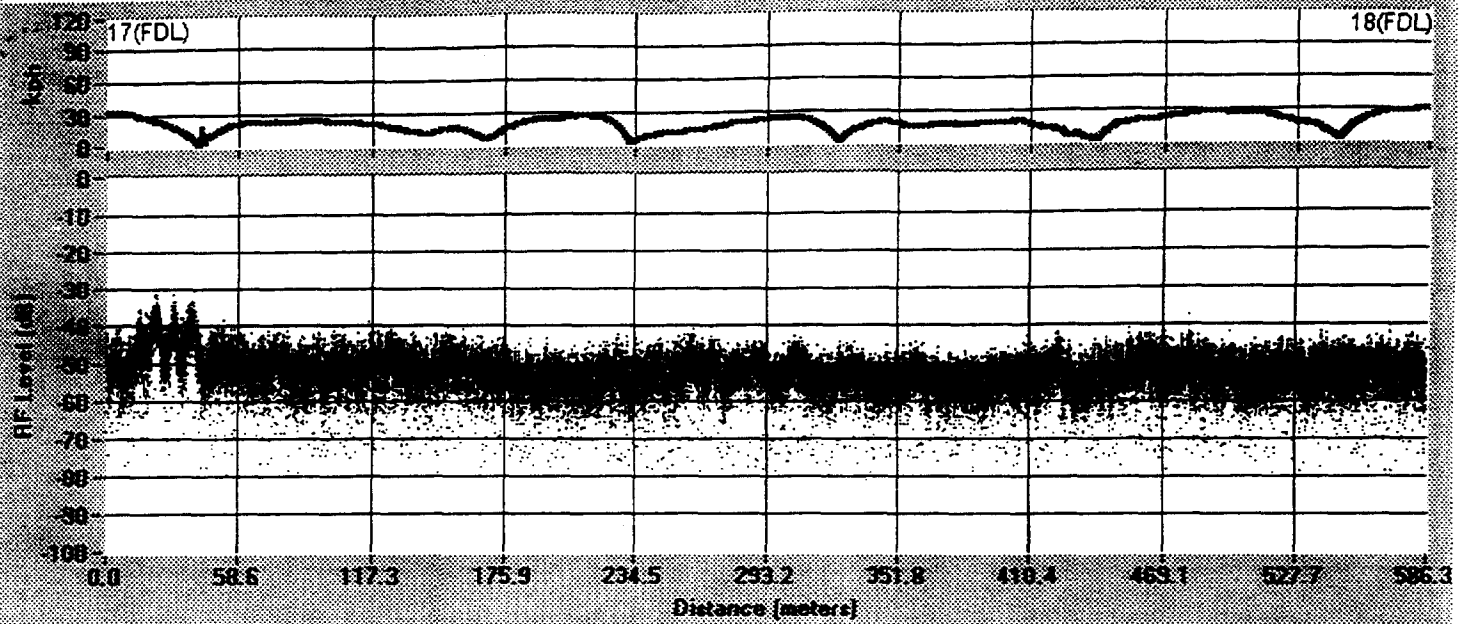**AT&T Lucent IBAC -- Downtown Route -- Landmarks 16-17**

16(FDL)   17(FDL)

Event Summary: Total 2236; Clear 2236 (100.0%); Impaired 0 (0.0%); Muted 0 (0.0%).

VOA/JPL -- Downtown Route -- Landmarks 16-17

16(FDL)   17(FDL)
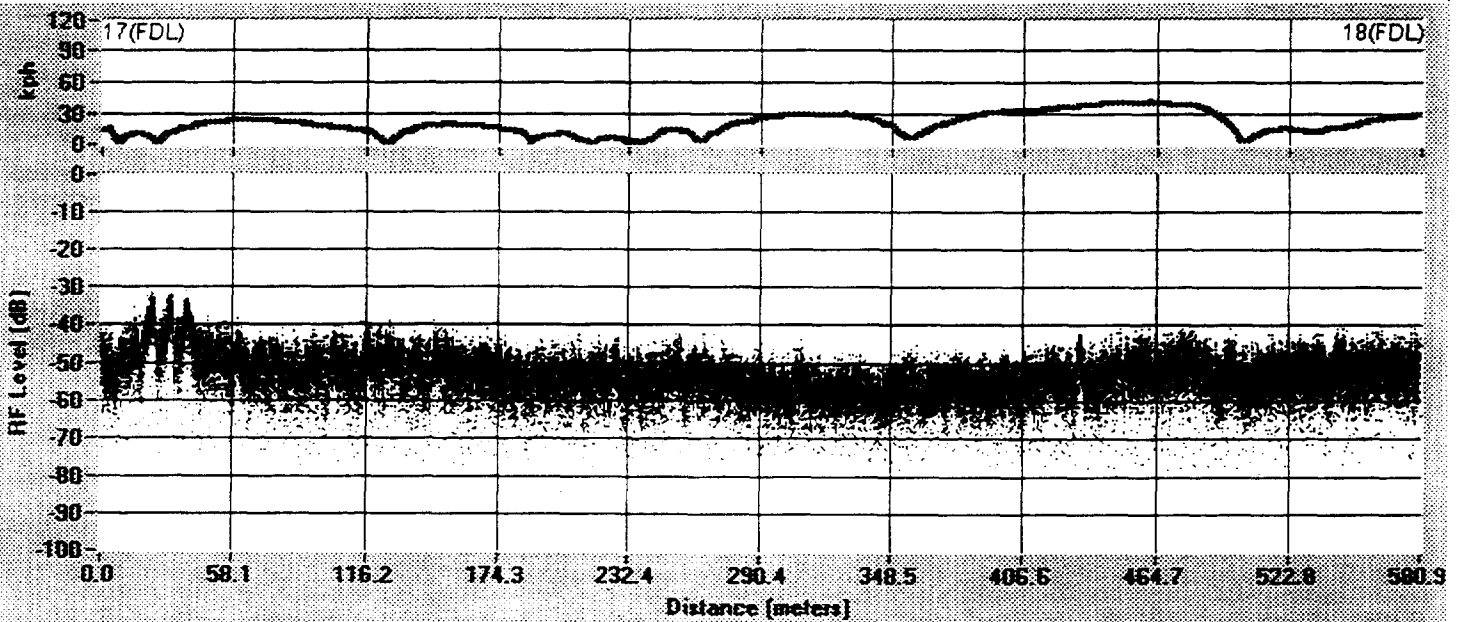
Event Summary: Total 1808; Clear 348 (19.2%); Impaired 20 (1.1%); Muted 1440 (79.6%).
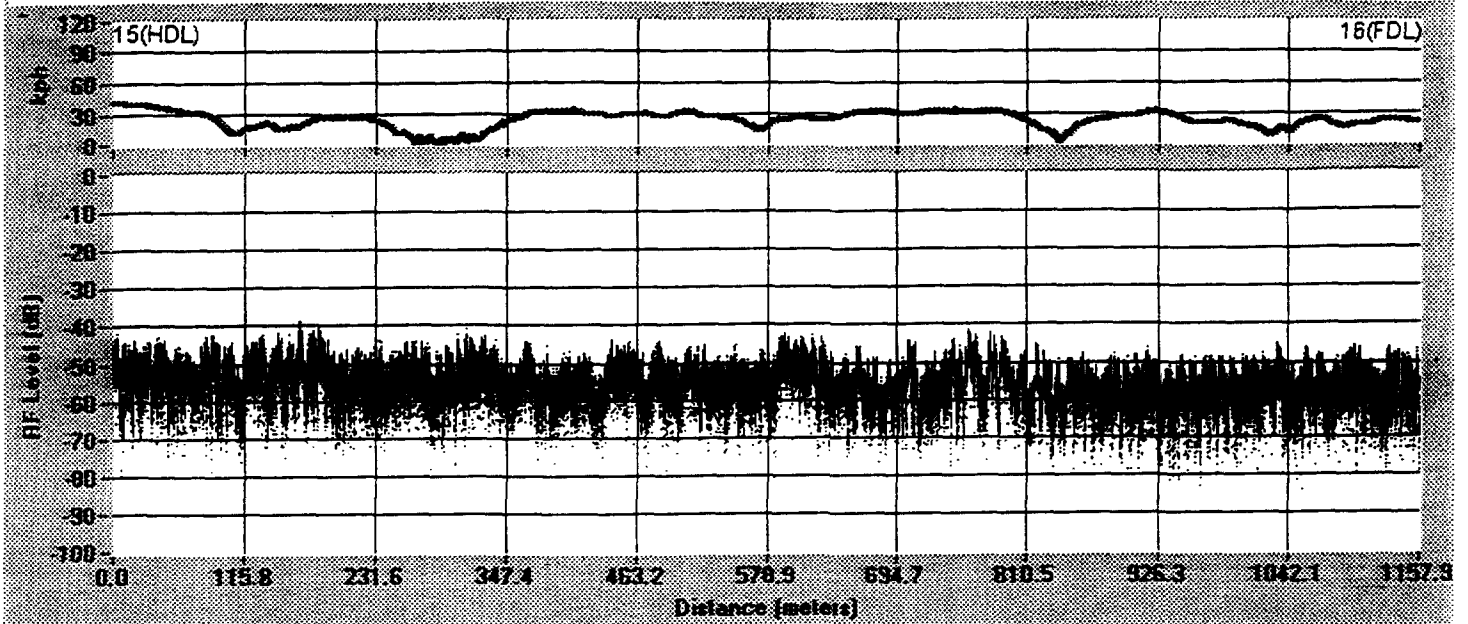
EUREKA-147 -- Downtown Route -- Landmarks 17-18

Event Summary: Total 3787; Clear 3787 (100.0%); Impaired 0 (0.0%); Muted 0 (0.0%).

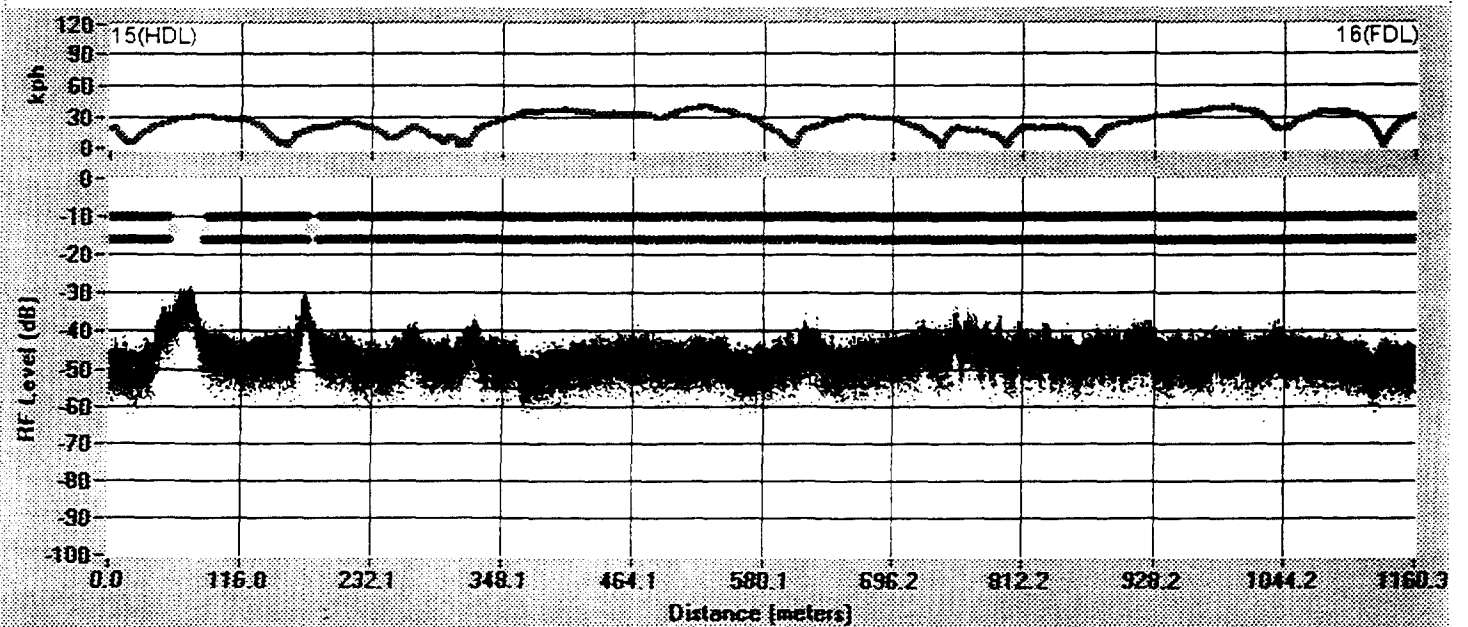## EUREKA-147 (Single) -- Downtown Route -- Landmarks 17-18

Event Summary: Total 4126; Clear 4126 (100.0%); Impaired 0 (0.0%); Muted 0 (0.0%).

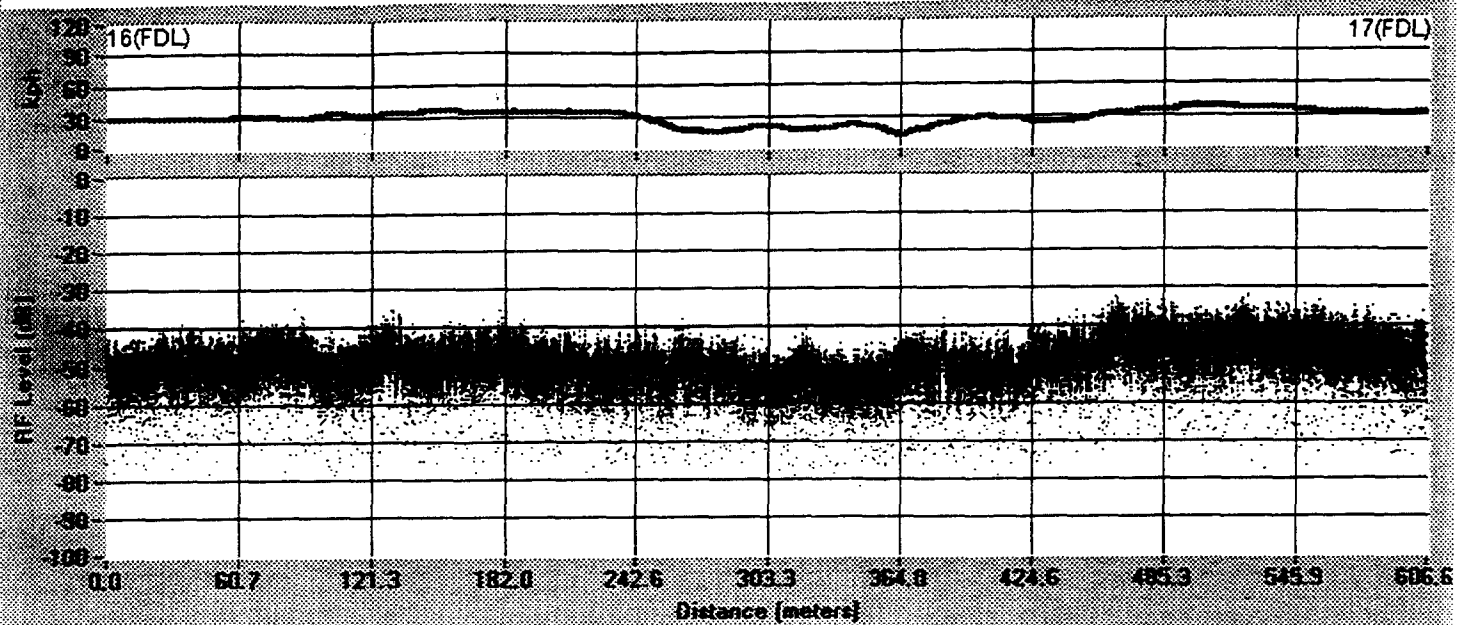**AT&T Lucent IBAC -- Downtown Route -- Landmarks 15-16**

Event Summary: Total 5902; Clear 5902 (100.0%); Impaired 0 (0.0%); Muted 0 (0.0%).
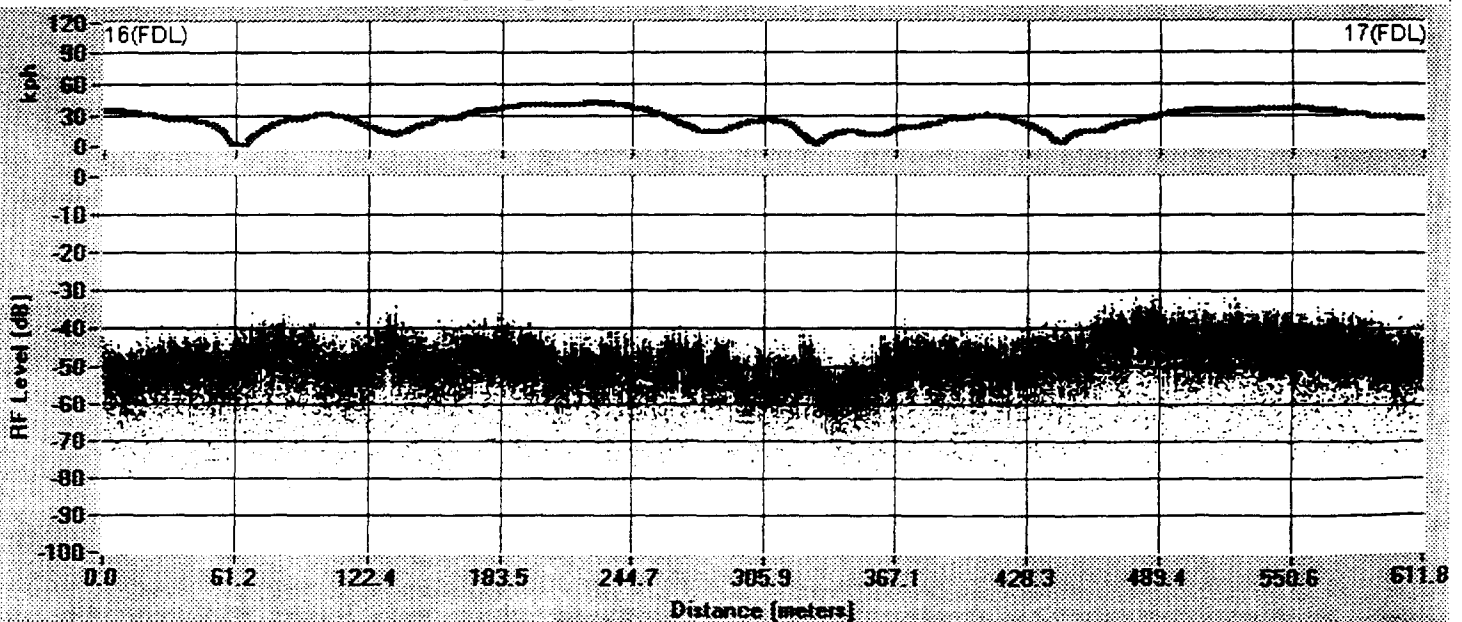

VOA/JPL -- Downtown Route -- Landmarks 15-16

Event Summary: Total 5773; Clear 108 (1.9%); Impaired 18 (0.3%); Muted 5647 (97.9%).
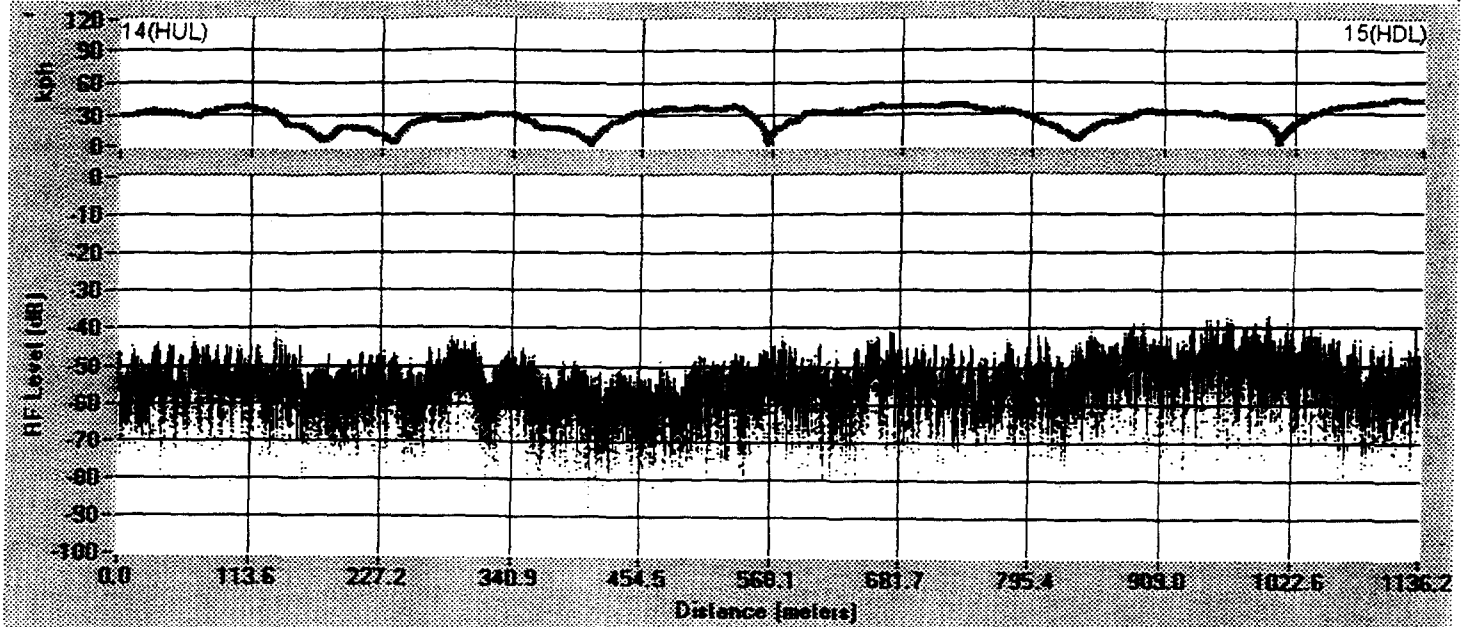
EUREKA-147 -- Downtown Route -- Landmarks 16-17

16(FDL)

17(FDL)

Distance [meters]

Event Summary: Total 1874; Clear 1874 (100.0%); Impaired 0 (0.0%); Muted 0 (0.0%).

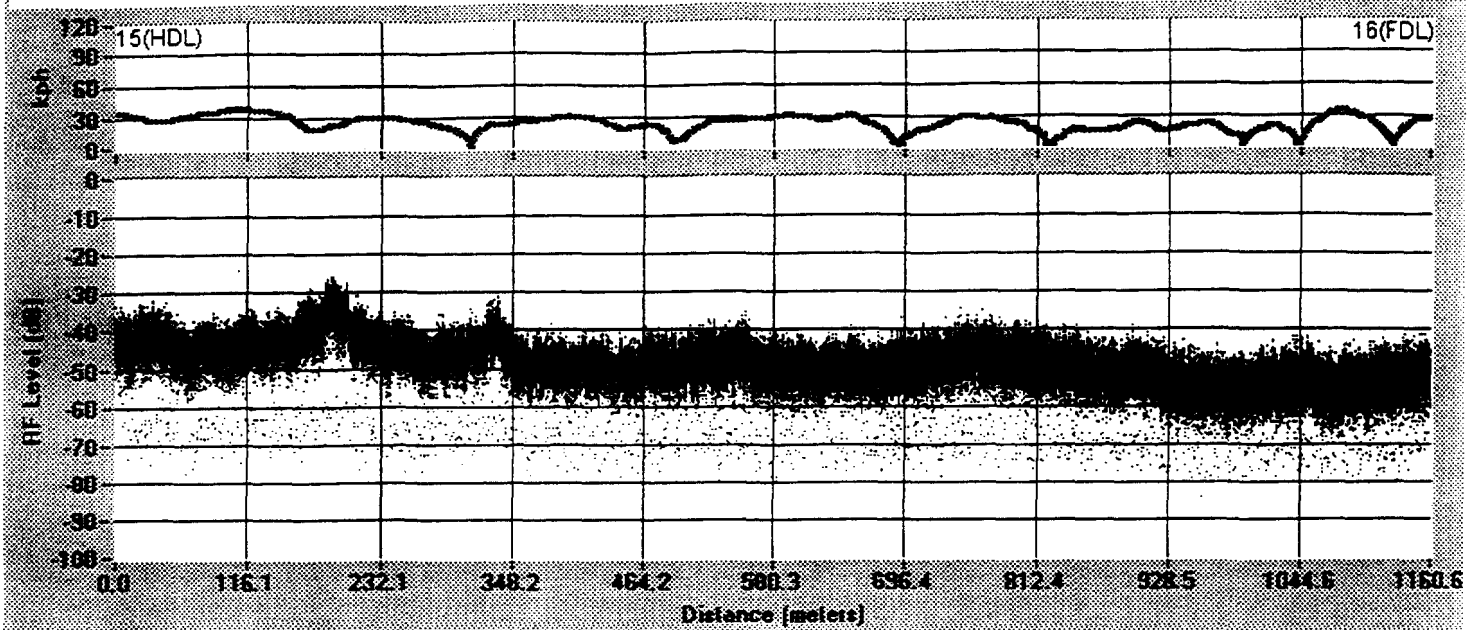
EUREKA-147 (Single) -- Downtown Route -- Landmarks 16-17

16(FDL)

17(FDL)

Distance [meters]

Event Summary: Total 2802; Clear 2802 (100.0%); Impaired 0 (0.0%); Muted 0 (0.0%).
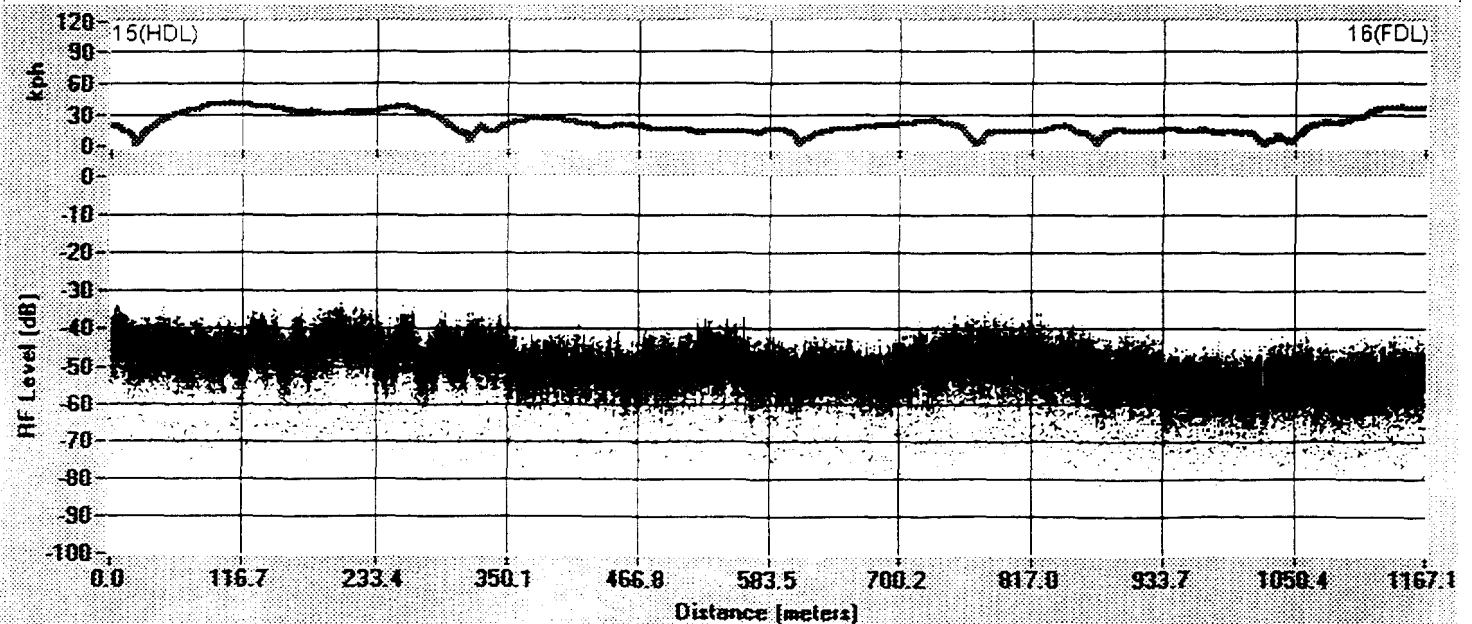
AT&T Lucent IBAC -- Downtown Route -- Landmarks 14-15

14(HUL)

15(HDL)

RF Level [dB]

Distance [meters]

Event Summary: Total 4358; Clear 4358 (100.0%); Impaired 0 (0.0%); Muted 0 (0.0%).

NOTE #3

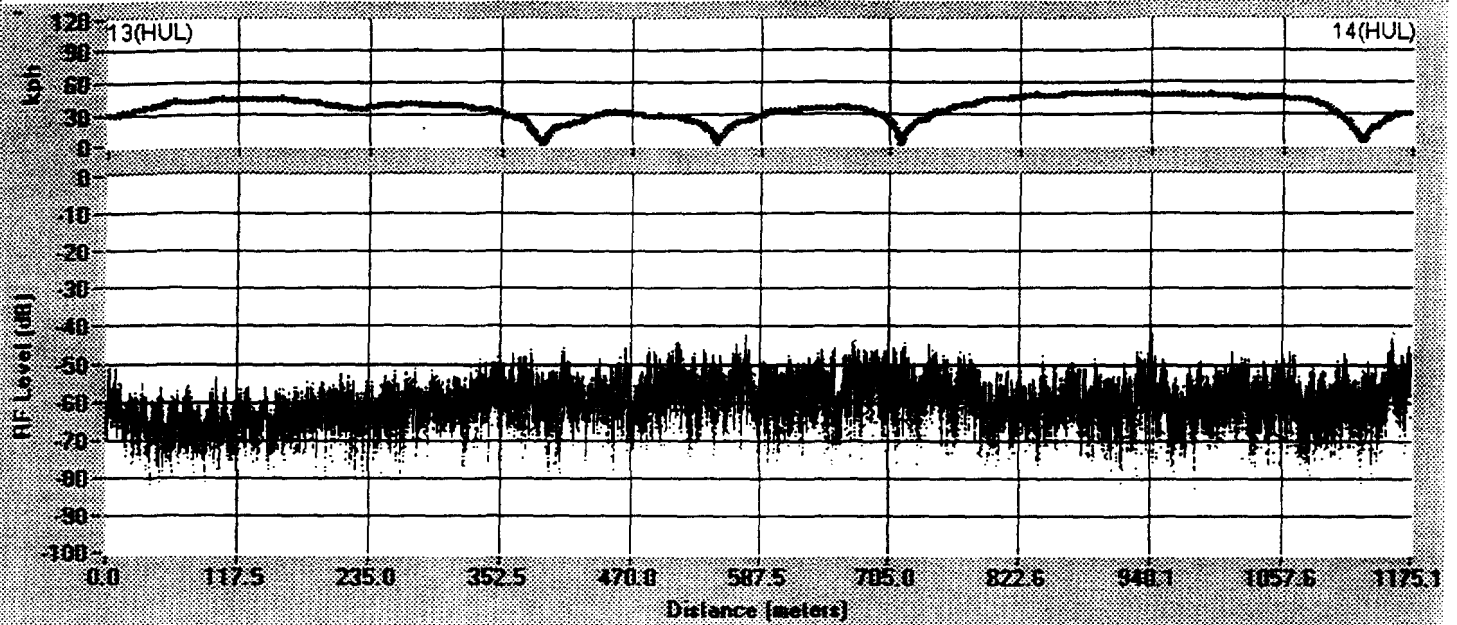**EUREKA-147 -- Downtown Route -- Landmarks 15-16**

Event Summary: Total 5578; Clear 5578 (100.0%); Impaired 0 (0.0%); Muted 0 (0.0%).

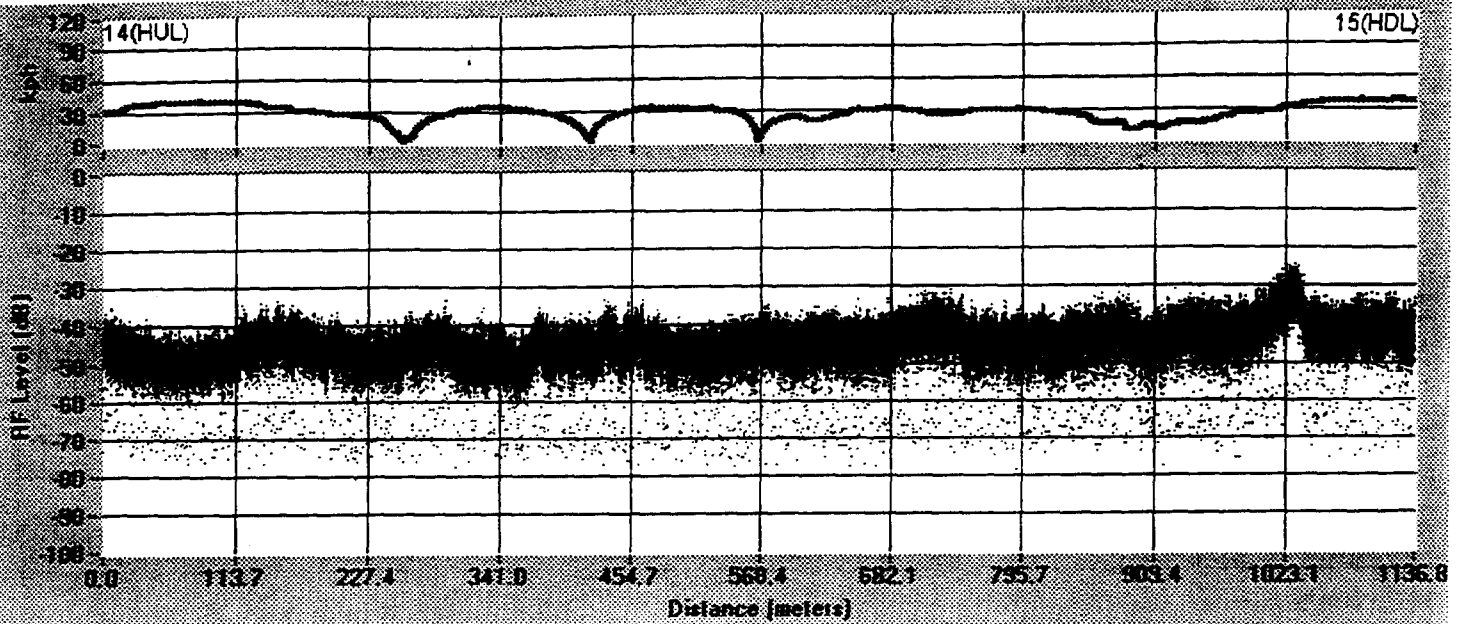**EUREKA-147 (Single) -- Downtown Route -- Landmarks 15-16**

Event Summary: Total 6304; Clear 6304 (100.0%); Impaired 0 (0.0%); Muted 0 (0.0%).

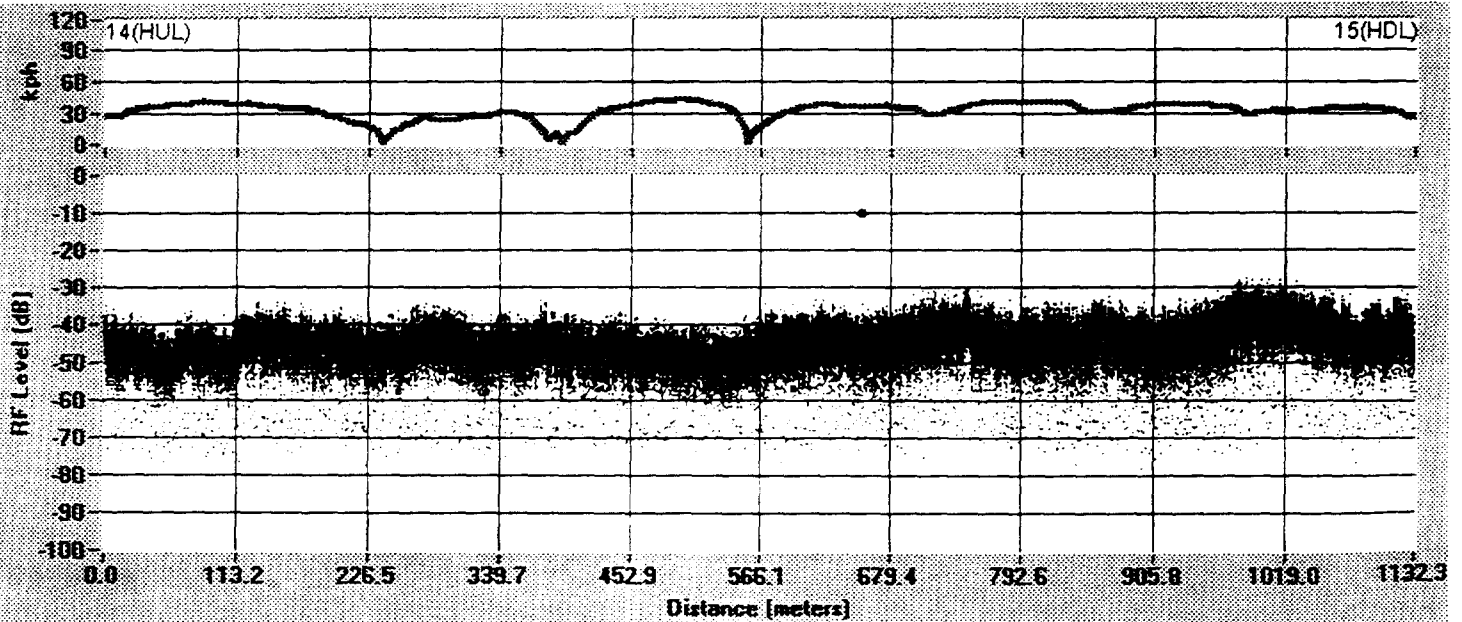**AT&T Lucent IBAC — Downtown Route — Landmarks 13-14**

Event Summary: Total 3488; Clear 3488 (100.0%); Impaired 0 (0.0%); Muted 0 (0.0%).

NOTE #3

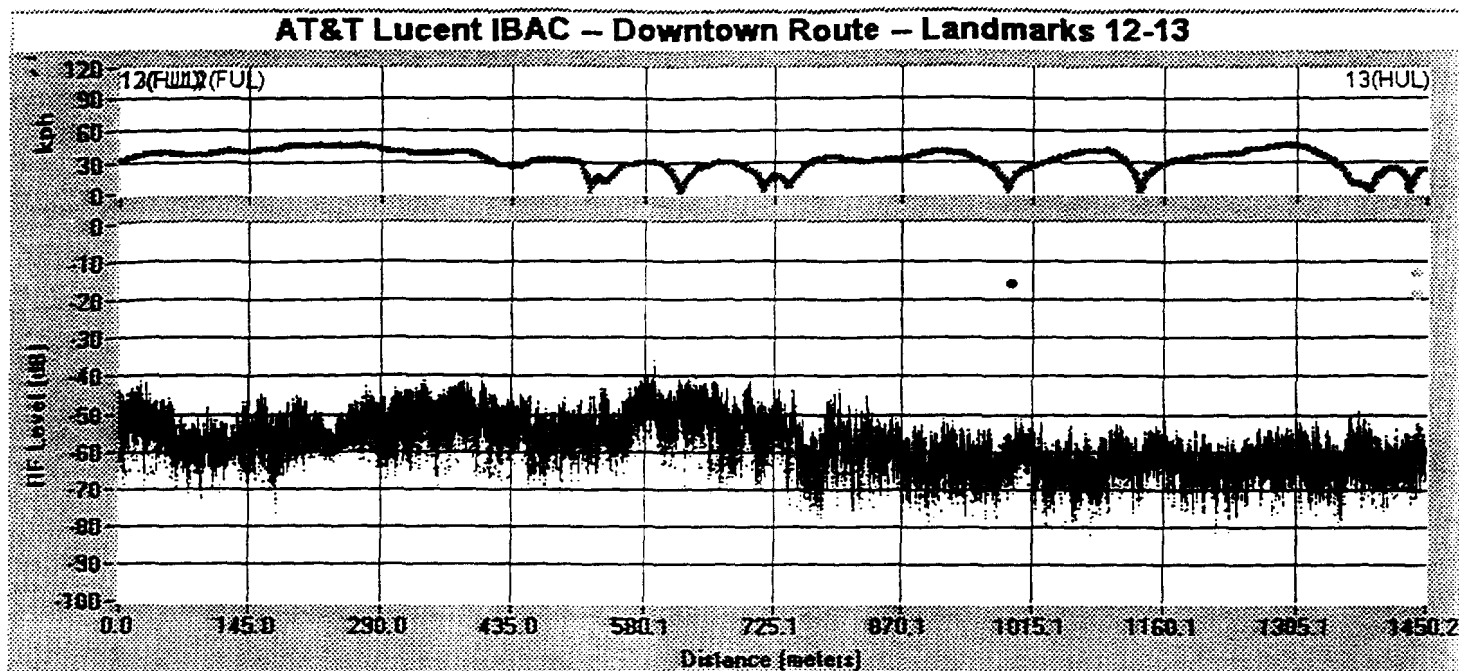## EUREKA-147 -- Downtown Route -- Landmarks 14-15

Event Summary: Total 4151; Clear 4151 (100.0%); Impaired 0 (0.0%); Muted 0 (0.0%).

EUREKA-147 (Single) -- Downtown Route -- Landmarks 14-15

Event Summary: Total 3549; Clear 3545 (99.9%); Impaired 0 (0.0%); Muted 4 (0.1%).
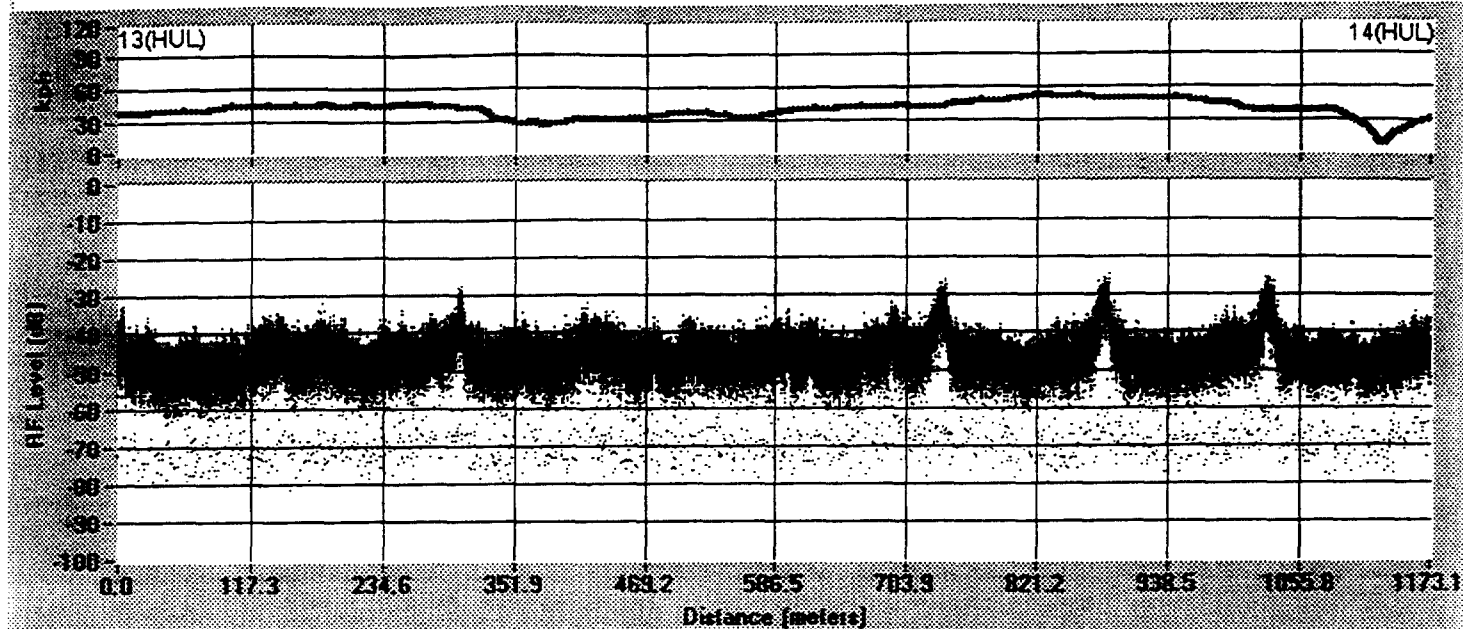
AT&T Lucent IBAC – Downtown Route – Landmarks 12-13

Event Summary: Total 4910; Clear 4890 (99.6%); Impaired 12 (0.2%); Muted 8 (0.2%).
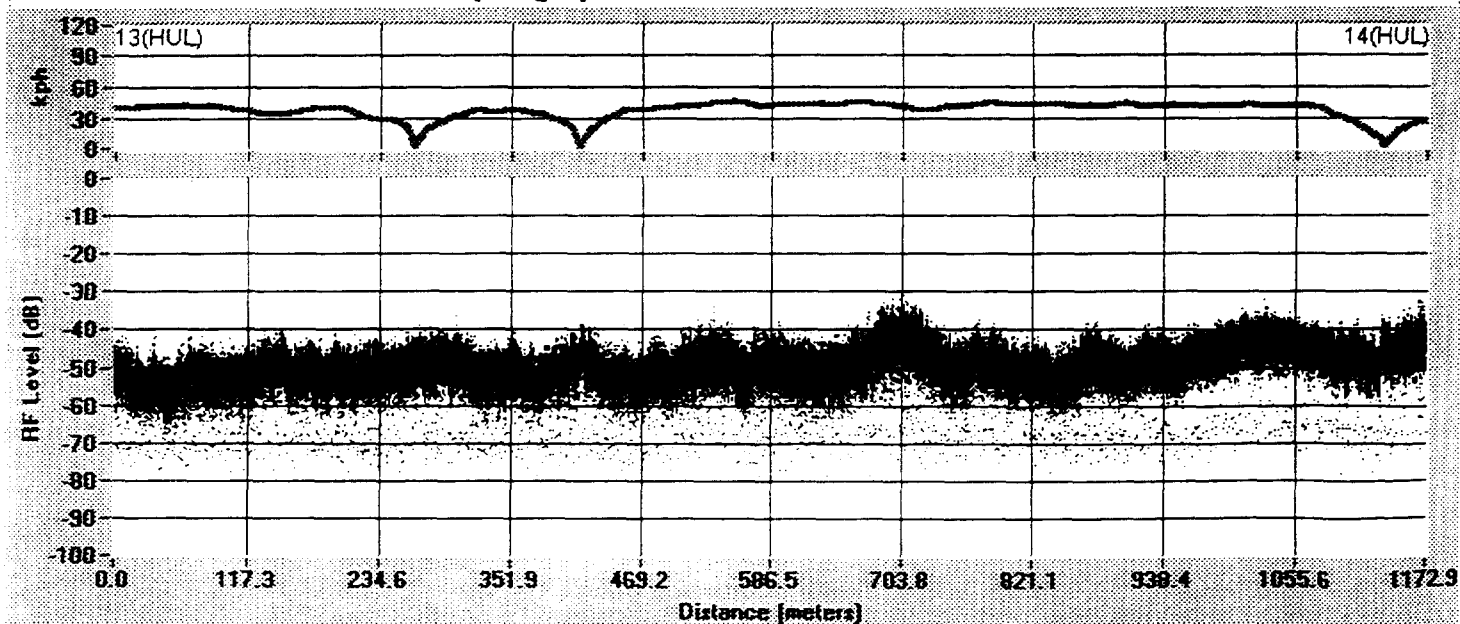
NOTE #1

NOTE #3

EUREKA-147 -- Downtown Route -- Landmarks 13-14

Event Summary: Total 2563; Clear 2563 (100.0%); Impaired 0 (0.0%); Muted 0 (0.0%).

EUREKA-147 (Single) -- Downtown Route -- Landmarks 13-14

Event Summary: Total 3097; Clear 3097 (100.0%); Impaired 0 (0.0%); Muted 0 (0.0%).